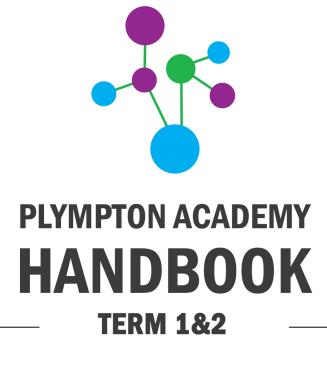
### NAME:







### Tone

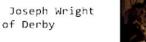
Tone can be used:



To create a contrast of light and dark

Johannes Vermeer

To create dramatic atmosphere





Colour as mood

Pablo Picasso

Colour as pattern

Yavoi Kusama

To create the illusion of form. depth and distance Caspar David Friedrich

To create a rhythm or pattern within a composition Paul Klee



artwork:

Wayne Thiebaud



Shape

•Squares and Rectangles can portray

•Circles and Ellipses can represent

•Triangles can lead the eye in an

Inverted Triangles can create a

sense of imbalance and tension

•The angles and curves of shapes

appear to change depending on our

Colour as movement

strength and stability

continuous movement

upward movement

Shapes can be used to control your

feelings in the composition of an

#### Henri Matisse

#### Form Three-Dimensional Form can be:

Modelled (Added Form) Antony Gormlev



The Formal Elements

Examples of how they are used by artists.

Carved (Subtracted Form) Leonardo Da Vinci



Constructed (Built Form) Louise Nevelson

Cast (Relief Form)

Alberto Giacommeti

Form can be created from sculptural materials like clay, wax, plaster, wood, stone, concrete, cast and constructed metal, plastics, resins, glass and mixed media.

### Pattern

Pattern repeats the elements of an artwork to communicate a sense of balance, harmony, contrast, rhythm or movement.

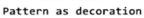
Pattern as landscape



David Hockney Pattern as repetition



**3D Design** 





M.C. Escher

Pattern as contrast

Kehinde Wiley

#### Line

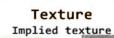
- Freehand lines can express the personal energy and mood of the artist
- Mechanical lines can express a rigid control
- Continuous lines can lead the eye in certain directions
- Broken lines can express the ephemeral or the insubstantial
- Thick lines can express strength
- Thin lines can express delicacy





Henry Moore

Peter Doig







Albrecht Dürer







Frank Auerbach

Vincent Van Gogh



Colour

Colour is the visual element with the strongest effect on our

emotions. We use colour to create the mood or atmosphere of an

Colour as symbol

artwork. There are many different ways it can be used:

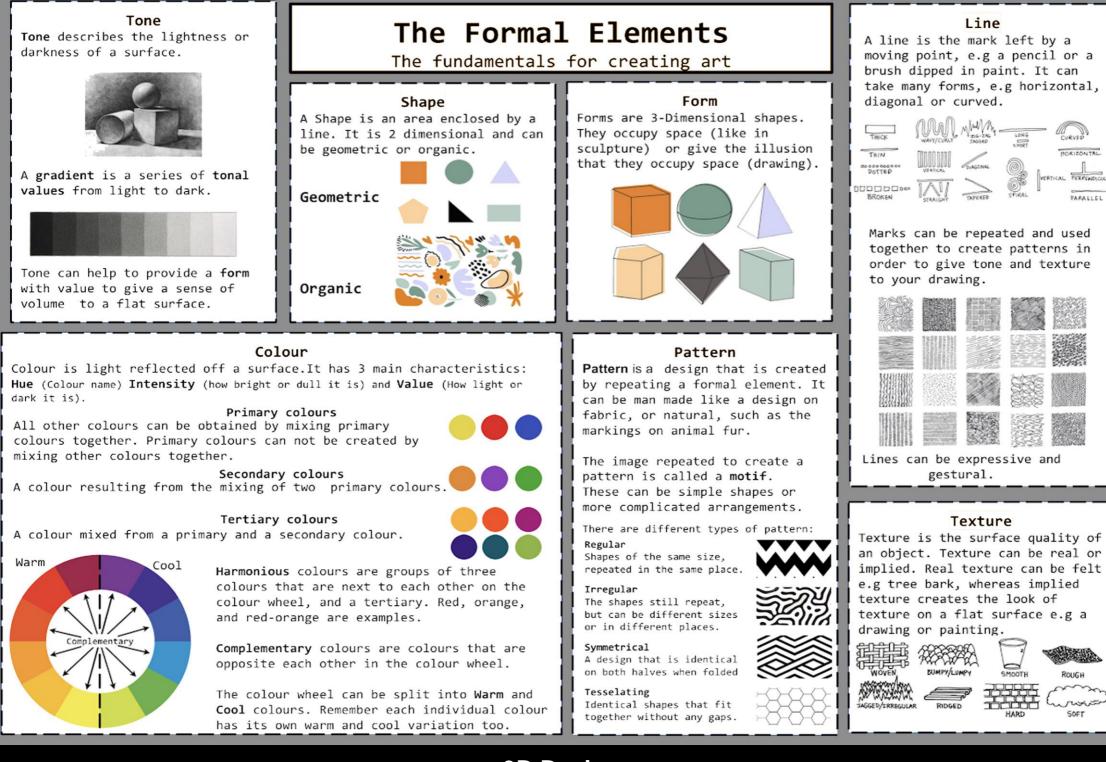
Colour as contrast



Josef Albers



Claude Monet



<u>3D Design</u>

#### Component 3: Performing to a brief

What is performing to a brief? To create a performance based on an idea, target audience and theme set by an exam board or class teacher.

### Title- Component 3

Year 11 Acting

Technical

Interpretative

Skills:

Skills:

Characterisation

**Facial Expressions** 

**Reactions/Interactions** 

**Spatial Awareness** 

Articulation)

Energy

Mood

Character

Atmosphere

Body Language (Mannerisms, Gestures, Posture)

Vocal Skills (Clarity, Articulation, Projection, Breath

Control, Pause, Pace, Tone, Pitch, Diction and

#### THE BRIEF:

'Better Together'

A local charity is launching a new project to promote the benefits of engaging with arts and culture. The research the charity has done suggests that when people engage with the arts there is a positive effect on their wellbeing. The launch event is an opportunity for the charity to raise awareness of the new project. The event will also promote the value of the performing arts in society. You have been commissioned by the charity to take part in the launch event.

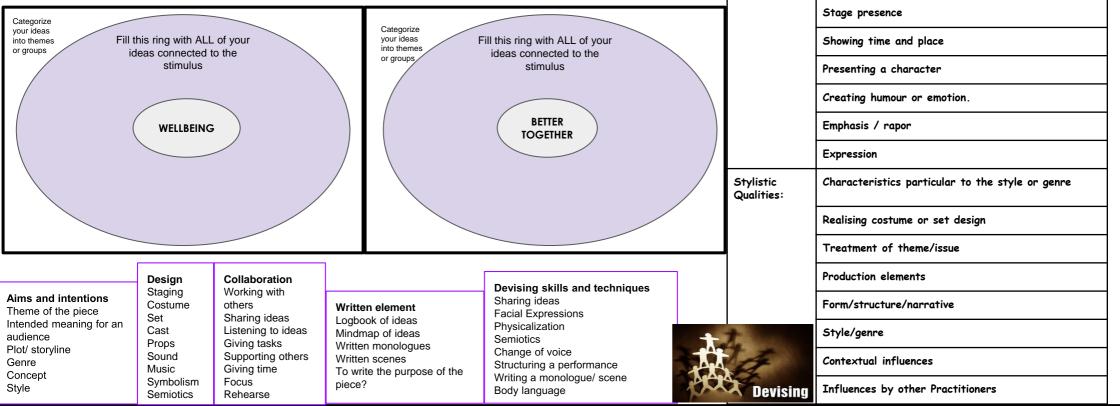
The charity has set the stimulus for the performance as:

What is Component 3?

Component 3 is titled 'performing to a brief'. This includes working as a group to create a devised performance that relates to the brief set by the exam board. You must create a workshop performance that communicates ideas and creative intentions to an audience of local people. You join in with discussions and practical activities to shape the original material. You will need to keep records of your work to answer three milestone questions in controlled conditions. The designers will need to design a particular aspect for one group and will need to pitch their ideas in place of a performance. You will need to partake in research, practical activities, workshops and explorations in order to develop your performance work.

#### Tasks:

- 1. To research the term 'BETTER TOGETHER'. To find out what it means in different contexts, how it can be applied to performance and to write up ideas of how you could use it in your performance.
- 2. To research the notion of WELLBEING" and to find out what that means. To think about what this word means to you personally.
- 3. What VALUE do the ARTS have on society? What research can you use to support your ideas?
- 4. Are we more isolated today despite being the most advanced we have been as a society? Explain your ideas and support with research
- 5. Mind Map the term "Better Together". How many different ideas do you have that connect to this theme?



ACTING

#### What is Epic Theatre?

**Epic theatre** is a type of **political theatre** that addresses contemporary issues, although later in **Brecht's** life he preferred to call it **dialectal theatre**. **Brecht** believed classical approaches to **theatre** were escapist, and he was more interested in facts and reality rather than escapism.

German playwright, Bertolt Brecht's ideas are very influential. He wanted to make the audience think, and used a range of devices to remind them that they were watching theatre and not real life.

Bertolt Brecht was a **theatre practitioner**. He made and shaped theatre in a way that had a huge impact upon its development. Many of his ideas were so revolutionary that they changed the theatrical landscape forever. Modern theatre owes a lot to his methods.

When **naturalistic theatre** was at its height and acted as a mirror to what was happening in society, he decided to use it as a force for change. He wanted to make his audience think and famously said that theatre audiences at that time "hang up their brains with their hats in the cloakroom".

#### -Focuses upon socio-political issues.

-Produces thought of solutions to the problems in society. -The message should be clear.

- -To do this, he made sure to remind the audience that they were watching a play and a representation of life.
- -He called the act of lessening emotional involvement

#### "Verfremdungseffekt."

-Brecht believed that theatre should appeal not to the spectator's feelings, but to his reason.

#### What are some Brechtian techniques?

Techniques such as the verfremdungsteffekt/alienation effect, didacticism, breaking the fourth wall, gestus, narration and use of song all encompass the Brechtian theorisation of Epic Theatre. Other techniques include alienation, parables, emotional investment, narration and coming out of role. Direct address and placards were also used a lot through his productions to send a clear message to the audience.

The characters would multi-role to make it clear that it was just a play. The set would be minimal.

#### What are political and social matters?

Example Community Problems: Adolescent pregnancy, access to clean drinking water, child abuse and neglect, crime, domestic **violence**, drug use, environmental contamination, ethnic conflict, health disparities, HIV/ AIDS, hunger, inadequate emergency services, inequality, jobs, lack of affordable housing, poverty, racism

A **social issue** is a problem that influences a considerable number of individuals within a society. It is often the consequence of factors extending beyond an individual's control, and is the source of a conflicting opinion on the grounds of what is perceived as a morally just personal life or societal order.

Epic theatre required actors to be up to date with political and social issues. This ensures that actors can convey real world issues in the play.

Political- relating to the government or public affairs of a country.

### Year 11 Acting

### Title- Component 3

Bertolt Brecht EPIC THEATRE

#### Who is Brecht?

Brecht works with political theatre and is the founder of Epic Theatre. He wanted to question his audiences and make them think. Brecht constantly reminded his audience that they were in a theatre and not real life, making them question political and social issues.

1) He was born on the 10th of February 1898 in Germany.

2) Before he was a playwright, he was a medical orderly in WWI.
3) He went to Munich and then to Berlin to pursue a career in theatre. This came to a halt when Hitler and the Nazis came to power in 1933.
4) Reichstag Fire: 4000 communists and party members were rounded up but Brecht was not home.

5) In 1941, Brecht became a resident in the USA but returned to Europe in 1947.

6) He appeared in front of the house Un-American Activities Committee, where they targeted intellectuals.

7) He died in 1956 after he established the Berliner Ensemble8) The dark time period he lived in gave him a strong political voice.9) He had a talent of creating a dynamic theatrical style to express his views.

Brecht opposed Naturalism when it was starting to grow in popularity and was starting to become used by many practitioners - like Stanislavski. Naturalistic theatre is when the audience are completely invested in the characters and story on stage. Brecht wanted his theatre to "change the world" rather than just entertain people. He had always rejected naturalistic theatre style that tried to present the audience with a perfect illusion of reality. Brecht required his actors to go beyond Stanislavski and to incorporate a social attitude or judgment into their portrayal.

#### Why did Brecht develop Epic Theatre?

- □ To "change the world"
- To make rational judgments about the political aspects of his work.
- □ To see the world as it is.

#### Theatre companies that are inspired by Brecht:

 Splendid Theatre Company: Splendid is a theatre company who "create challenging, vibrant theatre for young people."(Splendid, 2020)

#### Some of Brecht's works:

- Mother Courage and her children
- Threepenny Opera

One of the ways that you can explore the term 'Better Together' and is through political theatre. This would be in the style of Epic Theatre as developed by the practitioner Bertolt Brecht.

Other styles you could use to explore this topic are Theatre in Education, Verbatim, Non-naturalistic/ abstract, Physical Theatre.

#### Key words

Genre- a style or category.

**Epic Theatre-** Epic theatre, (German: episches Theater) form of didactic drama presenting a series of loosely connected scenes that avoid illusion and often interrupt the story line to address the audience directly with analysis, argument, or documentation. **Political-** relating to the government or public affairs of a country. **Symbolism-** an artistic and poetic movement or style using symbolic images and indirect suggestion to express mystical ideas, emotions, and states of mind.

**Gesture-** a movement of part of the body, especially a hand or the head, to express an idea or meaning.

Stylised movement

**Physicality-** the fact of relating to the body as opposed to the mind; physical presence.

Facial Expressions- To use the face to express emotion.

**Body Language-** the conscious and unconscious movements and postures by which attitudes and feelings are communicated. **Devising-** To plan, invent, create something of your own. **Choreographing-** To compose the sequence of steps Stimulus

Collaboration- to work with others towards a common goal.

**Alienation:** ensures that the audience are aware they are watching a play and not real life - focus on issues and not story.

Direct Address: talking to directly to the audience.

Multi-Role: actor plays more than one character.

**Songs:** Brecht would use songs as a narrative device, fill the gaps in the passage of time, to stop them getting carried away with the action.

**Gestus:** gesture, movement, stance, vocal - represents how a character is feeling/to represent their attitude.

**Montage:** series of freeze frames, images, scenes put together.

**Not-but:** the actor explores the possibility that their character might choose to behave in one way, but equally could've chose the opposite.





#### Why is it important to use key vocabulary in drama?

Keywords must be used in your written work, verbal feedback and self-assessments. This will go towards your Btec evidence for SMART targets, logbooks, research, leading of warm ups and exercises in class and controlled assessments.

Practice makes perfect- the more you use it the more you will understand it. You must include subject-specific vocabulary within your work to research distinction. Challenge yourself to use a few of these everyday!

### Year 11 Acting

### Title- Component 3

#### How to effectively use key vocabulary in drama?

- 1. Read it- To receive as knowledge
- 2. Define it- To understand
- 3. Digging deeper- To research how the word is used
- 4. Deconstruct it- To analyse how it could be used in your work
- 5. Link it- To link it to a specific moment/ scene from your plays
- 6. Use it- To use it in your research, feedback etc.
- 7. Act it- To being to apply it by showing that you can use it.

### Drama key words glossary...

- <u>Actions/Intentions: The action verbs the actor uses to fulfill the Objective/Driving Question. i.e. to possess.</u>
- Activity: A specific physical task that may or may not be connected to an action, such as a character loading a gun or packing a suitcase.
- Ad-Lib: Spoken words (sometimes witty comments) said out loud that are not in the script. They can also be given "off the cuff" when another actor forgets a line.
- Apron: The area of the stage in front of the proscenium arch.
- Arena: A type of stage where the audience is seated on three sides (also referred to as Thrust).
- Blocking: To set the movements of actors on a stage or set. Also, any given movement that enhances the scene, such as a specific character gesture.
- Characterisation- The actor using their craft to explore and develop the specific qualities of a character.
- Cultural- relating to the ideas, customs, and social behaviour of a society.
- Dialogue: The written words spoken by the actors/characters.
- Direct address- Where an actor directly speaks to/ addresses and audience.
- Dramaturge: A profession in theatre that deals mainly with the research and development of plays. The dramaturge often assists the director in the preparation of a production.
- Duologue- a play or part of a play with speaking roles for only two actors.
- Emotion: The agitation of feelings such as: sadness, power, fear, love, hate and joy.
- Endowment: To give physical or emotional attributes to your character, to create more reality and meaning to further the needs of the story. Objects can also be endowed with physical, emotional or historical attributes: shaving without a blade, removing wet clothing when it's not wet, drinking water as if it's vodka.
- Facial expressions- A facial expression conveys an emotion that tells us about the character and the way they react to the situation. It may also tell us something about that situation, eg if the character is very shocked when something happens. A facial expression can also convey the character's true feelings.
- Fourth wall: The imaginary wall which separates the actors from the audience, and the audience from the stage. The actor uses it to create the reality in the scene, and keep one's mind in the world of the film or play.

- Given circumstances: The background and current circumstances of a character, ranging from who you are, where you are, and why you are doing it. The costumes, sets and lighting—all the circumstances that are given to the actor to take into account as they create their role
- Historical- of or concerning history or past events.
- Improvisation: Setting out to do a scene with no pre-planned or written idea. A process leading to spontaneous discovery that allows the actor to find real, organic impulses within themselves.
- Intention: Another word for an acting objective, or action, that an actor pursues while onstage.
- Levels- Levels can be used to suggest status meaning the power or authority one character has over another. It's important to consider what the use of levels suggests when staging a scene. Levels can also be used to suggest various locations..
- Magic if/What if ? : Created by Stanislavsky, the actor tries to answer the question, "If this were real, how would I react?"
- Monologue: An uninterrupted speech by a character in a performance. The monologue may be to another character or the audience.
- Motivation: The Why? The reason a character pursues a particular objective or super objective.
- Naturalism- A naturalistic style of theatre used to make the acting and scenes seem real and relatable to an audience.
- Objective: A character's pursuit of a specific goal in a scene. Also referred to as the intention or driving question.

The actor has to develop their body.... They must develop their voice... their expressions.... Their ability to work with others.... But the most important thing an actor must do is to develop their mind.

### ACTING

- BRAINSTORM/MINDMAP
- ) THEME SHEET WITHIN MECHANIC ORGANIC
- 3 ARTIST RESEARCH SHEETS
- PHOTOGRAPHS TO DEVELOP YOUR IDEA
- 5 OBSERVATIONAL DRAWINGS
- EXPERIMENTS WITH DIFFERENT MEDIA AND TECHNIQUES 6

DRAWING, PAINTING.

PRINTING, PHOTGRAPHY,

WRITING, PHOTPGRAPY ...

**DIFFERENT MEDIA** 

ANNOTATE

- DEVELOPMENT (BRINGING THE IDEAS TOGETHER)
- X FINAL PIECE PLAN
- FINAL PIECE



Develop ideas through investigations, demonstrating critical understanding of sources. In presenting your personal intentions and response, you need to show you have met all the assessment objectives in each component: Develop, Explore, Record and Present.



Extended learning: Homework tasks will be set regularly by your class teacher. These tasks should take you on average 40 minutes to complete and you will have a week to complete each task. All homework tasks will relate directly to your coursework portfolio and are important part of your project work.

### OUTCOME PRESENT **FINAL IDEAS DEVELOPED AS PLANNED CLEARLY RESPONDS TO** ARTISTS EXPLORED CONNECTION CONCLUSION

REVIEW

IMPROVE

### **ART & DESIGN - Making a personal response**

1. Binary Sea	rch	4. Insertion Sc	ort	
The Algorithm	<ul><li>Calculate a mid-point in the data set.</li><li>Check if that is the item to be found.</li></ul>	The Algorithm	The insertion s set one at a tir	
	<ul> <li>If not</li> <li>If the item to be found is lower than the mid-point, repeat on the left half of the data set.</li> <li>If the item to be found is greater than the mid-point, repeat on the right half of the data set.</li> </ul>	Efficiency	<ul> <li>It is a useful al</li> <li>It is particularl</li> <li>It is usually reputed to a sets.</li> </ul>	
	Repeat until the item is found or there are no items left to check.	5. Merge Sort		
Requirements / Efficiency	<ul> <li>Requires the data set to be in order (probably by a key field).</li> <li>Can be done with letters as well as numbers—use alphabetical order</li> <li>More efficient than a linear search on average</li> </ul>	The Algorithm	<ul> <li>A very efficien</li> <li>Uses a divide</li> <li>Creates two or</li> </ul>	
2. Linear Sea	rch		<ul><li>problem, solvi</li><li>Combines the</li></ul>	
The Algorithm	<ul> <li>Starting from the beginning of a data set, each item is checked in turn to see if it is the one being searched for</li> </ul>		<ul> <li>Data set is rep</li> <li>Adjacent lists</li> </ul>	
Requirements / Efficiency	<ul> <li>Doesn't require the data set to be in order.</li> <li>Will work on lists of any data type.</li> <li>Can be efficient for smaller data sets.</li> <li>Is very inefficient for large data sets</li> </ul>	algorithm u one sort	Works very we settion sort sets two lists, ed and one orted.	
3. Bubble So	rt	Elements	are gradually	
The Algorithm	<ul> <li>Sorts an unordered list ofitems.</li> <li>It compares each item with the next one and swaps them if they are out of order.</li> </ul>	moved from the unsorted list to the correct position in the sorted list.		
	<ul> <li>The algorithm finishes when no more swaps need to be made.</li> <li>In effect it "bubbles" up the largest (or smallest) item to the end of the list in successive passes.</li> </ul>	The <b>bubble sort</b> algorithm works through a list, comparing pairs of values and swapping them if necessary.		
Efficiency	<ul> <li>This is the most inefficient of the sorting algorithms but is very easy to implement.</li> <li>This makes it a popular choice for very small data sets</li> </ul>	list comparing v	Pass ssing through the ralues and making he list is sorted. Pass	
6. For the exa	am	The merge s	5 2	
<ul> <li>✓ Understand</li> <li>✓ Apply the a</li> <li>✓ Identify an</li> <li>✓ Show all yet</li> </ul>	d the main steps of each algorithm d any pre-requisites of analgorithm algorithm to a data set algorithm if given the code for it our steps in detail need to remember the code for thesealgorithms	algorithm worl splitting a list individual elen and gradual merging them larger and lar sorted lists unti are in one sorte	ss by into ger il they	

sort inserts each item into its correct position in a data time. algorithm for small data sets. rly useful for inserting items into an already sorted list. eplaced by more efficient sorting algorithms for large ent method of performing a sort. e and conquer method. or more identical sub-problems from the largest ving them individually. eir solutions to solve the bigger program. epeatedly split in half until each item is in its own list. are then merged back together. vell for large data sets. Sorted Unsorted 5 2 1 3 4 5 1 3 4 2 Relatively efficient when used with small 2 5 1 3 4 1 2 5 3 4 lists. 2 3 5 4 3 4 5 3 4 5 2 1 4 Easy to implement; however, it isn't very efficient. 5 ass 1 4 5 5 ass 2 3 4 2 6 4 8 3 Δ 8 Very efficient when used with both large and small lists. 3 5 Δ 2

### **COMPUTER SCIENCE**

1. Key	Terms			6. Use of Boo	elean operators (and, or not)				
Variable Constan		ge while	change while the program is running the program is running, and is aned	<ul> <li># A condition may use Boolean operators. Each part of the condition must be</li> <li># a complete true/false test, including any variables tested</li> <li># This example tests whether there are some pupils and a teacher for a lesson</li> </ul>					
Operato			n, e.g. "+" is a mathematical Operator		>= 1 and (teachers ==1 or coverTeachers == 1) "The lesson can go ahead.")				
Assignm	ent Giving a variable or consta	ant a valu	ie	else	-				
Casting	Converting a variable from	one dat	a type to another	print( endif	"There are not enough people today!")				
Input	A value that is entered into running	the prog	ram after the program has started		Input Validation				
Output	A value produced by the p	rogram a	and saved or displayed to the user	# Always validate	e inputs (check they are correct) before the code processes them				
2. Correct Use of Data Types					valid, give the user a suitable message and ask for the input again sks for an input between 1 and 10 (but assumes the input is an integer)				
Integer	A positive or negative whole n	umber u	sed when arithmetic will be required	ValidInput = False					
Real/Flo	Real/Float A positive or negative decimal number				<pre>while NOT ValidInput     userNum = input("Input a number from 1 to 10: ")</pre>				
Boolean	True or False			if userNum >= 1 and userNum <= 10 ValidInput = True else					
Characte	er A single alphanumeric								
String	Multiple characters joined tog	ether			int("I am sorry, that input was invalid.")				
3. The	Three Basic Programming	Constru	ucts	endif endwhile					
Sequenc	e Executing one instruction	after and	ther	8. Arrays					
Selection	n Program branching deper	nding on a	a condition (e.g. if-then-else)	Definition	An array is a series of memory locations – or 'boxes' – each of which				
Iteration			ting sections of code. <u>Condition</u> controlled (e.g <b>while-loop</b> )		holds a single item of data, but with each box sharing the same name. All data in an array must be of the same data type. Unlike lists, arrays are static, meaning that their size is fixed when they are created.				
4. Com	mon Arithmetic Operators	5. Co	mmon Comparison Operators	Use	<ul> <li>Indices start at 0 for the first data item ("zero indexed")</li> </ul>				
+	Addition	==	Is equal to		<ul> <li>Arrays may be single or multiple dimensions.</li> <li>Visualise dimensions as a column (single dimension) or a table</li> </ul>				
-	Subtraction	!=	Is not equal to		(two dimension, rows and columns)				
*	Multiplication	<	Is lesser than	Example (1D)	<ul> <li>In Memory two dimensional arrays are still stored in linear fashion myArray = ["A", "B", "C", "D"]</li> </ul>				
/	Division (Real/Float)	> Is greater than		Example (TD)	<pre>myArray = [ A , B , C , D ] # myArray[1] will return "B"</pre>				
DIV	Division (Integer part only)	<= Is lesser than or equal to		Example (2D)	my2Array = [ ["A", "B"], ["C", "D"] ]				
MOD	Modulus (i.e. remainder)	>= Is greater than or equal to			# my2Array[0] will return ["A", "B"]				
Exponentiation (to the power)					# my2Array[1,0] will return "C"				

### **COMPUTER SCIENCE**

**Chaine Turn** - a basic turn used in ballet and jazz dance, as well as other styles.

**Ball Change** - shifting weight from one foot to the other, and back again.

**Grapevine** - a dancer steps out to the side, crosses the other foot in front, steps out to side again, and crosses the other foot behind.

**First Position** - One of five ballet positions. Heels touch and toes pointed outward, forming a line with the feet. Arms are rounded.

**Second Position** - One of five ballet positions. Feet are separated about shoulders' width, with toes turned outward. Arms are outstretched with slight rounding.

**Pique Turn** - Dancer steps out on one foot, and a complete turn is made on releve while the opposing foot's toes are brought up to the inside knee.

**Releve** - To balance on your toes, either stationary or in movement.

**Kick Ball Change** - one foot kicks either forward, to the side or to the back, and then is brought behind for a ball change step.

**Heel Pull** - found in ballroom dancing, a half turn is completed on each heel.

**Derriere** - French for "directly behind the body." Referenced often in ballet.

Pas de Deux - a two-person dance, usually a male/female duet

**Double Turn** - two full rotations of any dance turn (pique, attitude, pencil, etc.)

Attitude Turn - while turning on releve, one leg is bent backward behind the body, leading the turn outward.

**Glissade** - a small leap to the side, almost a gliding motion across the floor.

Plie - a bend of the knees in any of the five ballet positions

**Pas de Bourree** - a connecting step used in dance combinations, it involves the transfer of weight from one foot to the other, usually to "prep" for a turn or leap.





DANCE

# **Component 3: Responding to a brief**

### **Physical Skills**

Alignment Correct placement of body parts in relation to each other.

Balance A steady or held position achieved by an even distribution of weight.

Control The ability to start and stop movement, change direction and hold a shape efficiently. Coordination The efficient combination of body parts. Extension Lengthening one or more muscles or limbs. Flexibility The range of movement in the joints (involving muscles, tendons and ligaments). Posture The way the body is held. Stamina Ability to maintain physical and mental energy over periods of time. Strength Muscular power.

### **Performance Skills**

Facial Expression Use of the face to show mood, feeling or character.

**Musicality** The ability to make the unique qualities of the accompaniment evident in performance.

**Projection** The energy the dancer uses to connect with and draw in the audience.

**Energy** the force applied to dance to accentuate the weight, attack, strength, and flow of a dancer's movement



### **Rehearsal Skills**

**Teamwork**: Working effectively as a team. Listening to everyone's ideas and showing respect.

**Safe practice**: Demonstrating safe practice at all times - hair up, jewellery off, socks off (including grippy socks).

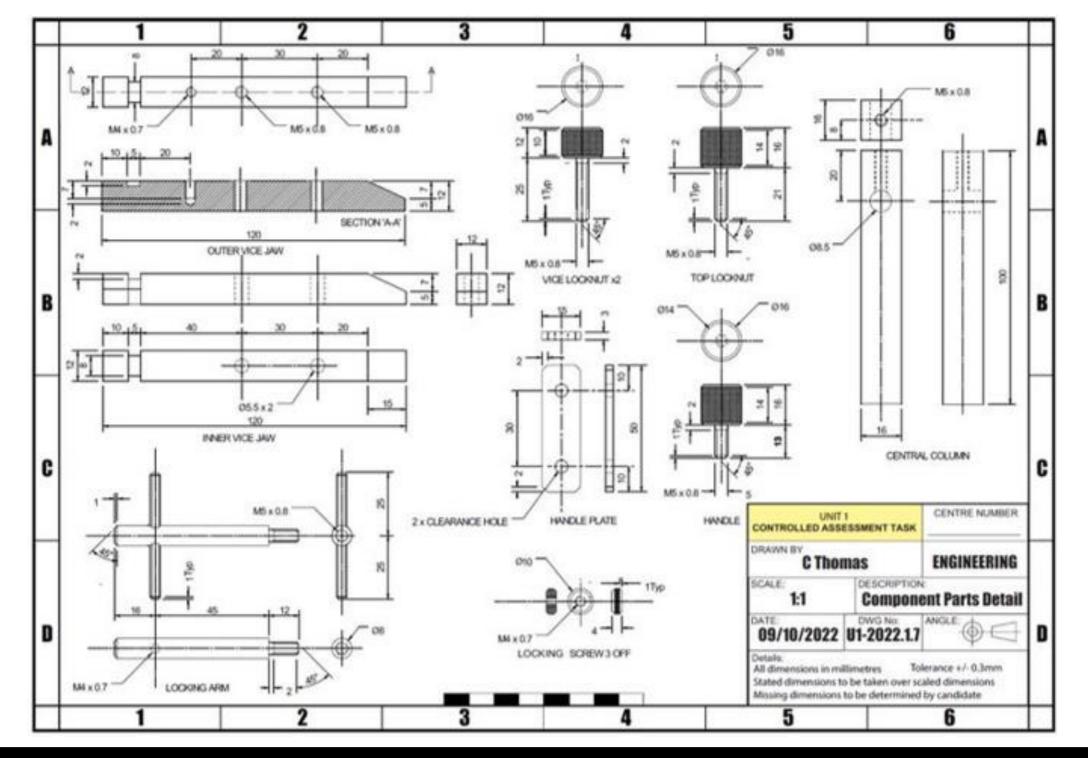
**Enthusiasm**: Having an active role in the lesson - share ideas and collaborate with your peers.

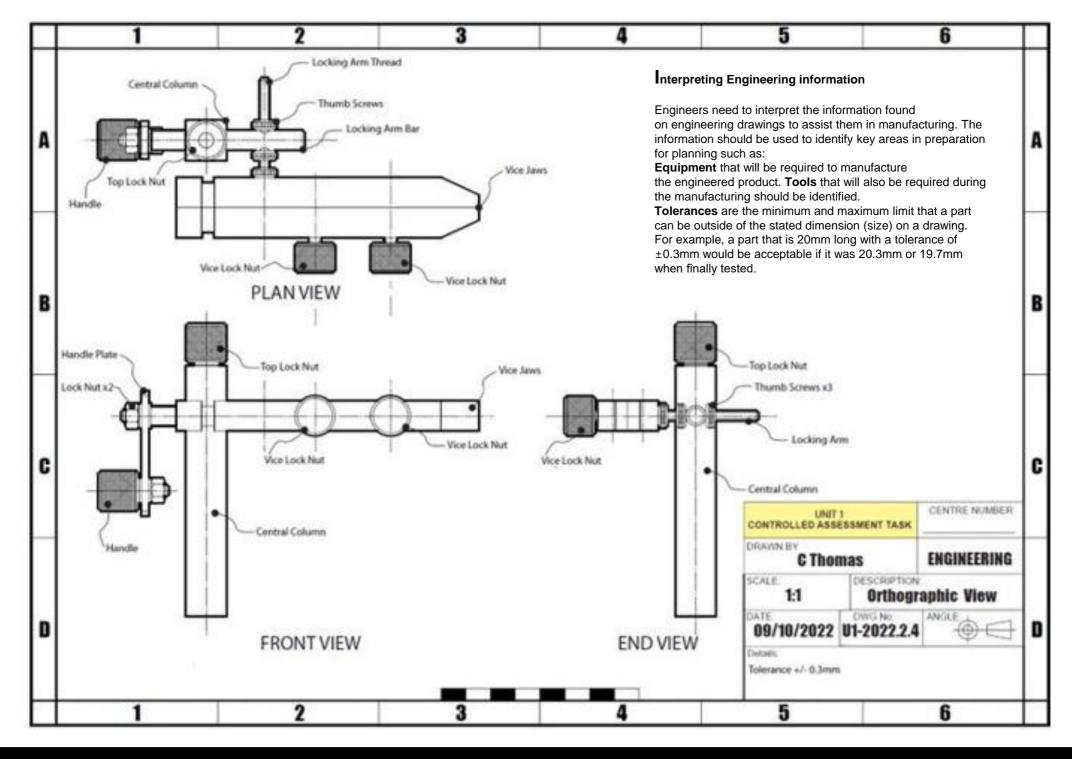
**Engagement**: Remain engaged at all times. Stay on task and ask questions if needed.

**Contributions**: Offer useful feedback and comments to your group in order to continue your progression.

DANCE

	DATA	ACK					1.5			
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/	NILSHO	1.0m	94 147	#8 107	1410	110	100		-	-
6	Washer x4	13ine	127	11.5	1400	540	750		-	- a.c.
	- Locking Arm Thread		14-55	6.3-12	3400	Korstra 750	100		1	-
	MS+0J	435mm	12-54	12.2-15.8	2400	540	256		+	
and and and the	38L s 1	Liline	24-1	1828-254	1000	100 Spath	258	1 P 1	+-	1 -
cking Arm Bar	Thumb Screws x3 Miles	7 Maren	14-12	4.8-127	3000	1046	10000			
	Contraction of the second s	-	108-110	114-354	1754	1008	100		-	-
	38736 e1.2		358-1		1006	36	1000		1.1	
	Thread Siz	es	Drill Speed	23	_		_		_	
					Material	Cutting	Spent	Soun End Mi in menihood	May inte	Cost Will Freed
				-	Mumirium.			0.050	3	0.000
				115	w/hite	9	90	1.00		6380
			2		set Roal		90	5.65		6.098
			1		left Reed	*		6.579		8.110
		Y -	10		ND		90	4,00		6500
	0 0 0	2	ML	Mill	ing Feed	Speeds				
		1				UNITE			CENTRE	E NUMBER
		91	-		ROLLES	ASSES	SMENT	TASK		
		-		DRAV	UN BY	Thom	as		ENGIN	EERING
				SCAL			Cor	RIPTION INPONE		ts Visa
	VISUAL 2			DATE			G No.			

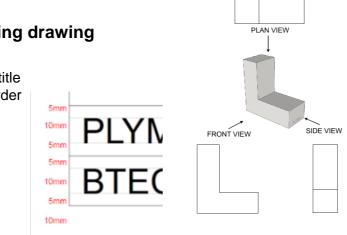




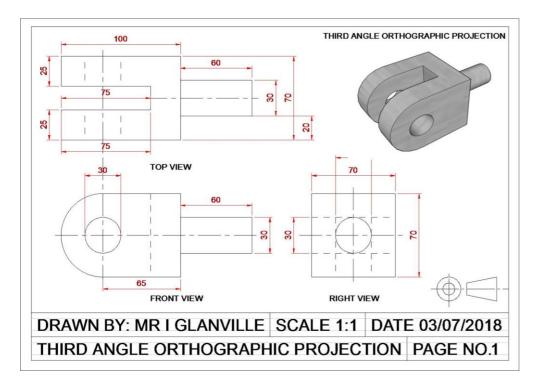
### Layout out of an Engineering drawing

Before drawing an engineered component a suitable border and title block is required. The drawing border and title block has the following Dimensions

5mm space 10mm text line 5mm space 10mm border



ENGINEERING



Information required can include, name of person completing the drawing, what the drawing is, the name of the company, a date and perhaps a number if it is a series of drawings.

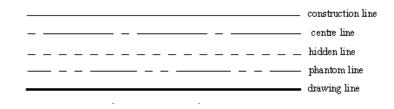
### Types of lines

A **construction line** is a really light line. It is a line that can be removed for the final drawing, it may be a part of a circle that was draw or a line that was used to lay the drawing out correctly.

A **centre line** shows the centre of an object or components that is equal in size on either side.

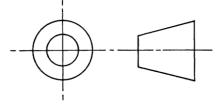
A **hidden line** shows a space, void or part of an object that can not be seen from the view that has been drawn. Although it cannot be seen it still needs to be represented and is show as a dashed line.

A **dimension line** shows the size or length of part of the component or object



### Third angle orthographic projection

The standard symbol that you will find on a drawing arranged in a third angle projection looks a traffic cone. This will help remind you how to set out the drawing



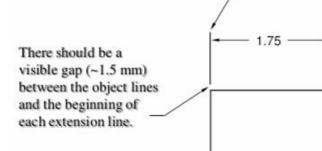
This means the first drawing you will see is the top view, then the side view.

### Representing dimension lines on a drawing

Dimension lines show the size or measurements of an engineered product or component

Extension lines overlap dimension lines (beyond the point of the arrowheads) by a distance of roughly 2-3mm

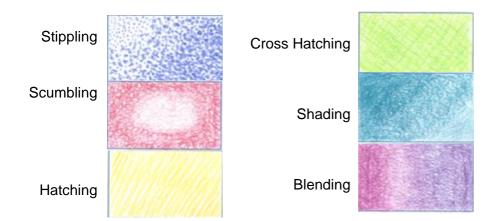
1.06



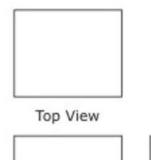
Dimensions should be placed *outside* the actual part outline. Dimensions should not be placed within the part boundaries unless greater clarity would result.

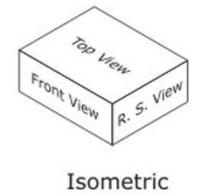
### Types of rendering

Shading or rendering a three dimensional isometric drawing will give the drawings a realistic feel and show materiality.(what it is made of).



### **Isometric drawing**

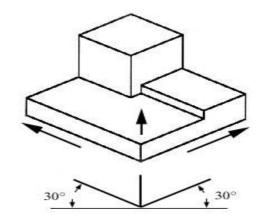




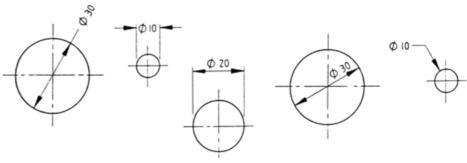


R Side View

As well as a third angle orthographic projection, an engineering drawing can include an isometric projection which uses **vertical lines** and lines drawn at **30°** to **horizontal.** 



### **Representing dimension lines on circles**



All of the above are acceptable when showing the dimensions, diameter or radius of a circle

### Yr10 Engineering

### Processes

**Marking out** is a process where the required shape is marked onto the stock material.

**Cutting** can occur using a hand tool like a hacksaw, sheers or snips saw or fretsaw, or using machinery such as a metal bandsaw.

**Milling** uses a milling machine to cult slots in blocks of metals, and to face off edges.

Finishing is applied at the end stage of production. It could include a range of finishes such as polishing, knurling, enamelling, electroplating or anodizing.
Shaping can involve the removal of materials, called wasting, using saws, files or grinding equipment.
Drilling is a process used when a hole is required in a

material. Drilling can be done using a hand drill, or drill press/pillar drill.

**Turning** uses a machine called a lathe that can be used to turn a piece of metal to create differently shaped round pieces. It can also be used to create threads and to apply different knurled finishes. **Joining** metals can be done permanently using welding, brazing, epoxy resin adhesives and soldering. Temporary methods include nuts and bolts, hinges, screws and rivets. Soldering is used to heat join softer metals such as silver in jewellery (silver solder) or to attach electronic components to printed circuit boards. **Forming** is a process used to change the shape of the material, for example by bending, compressing or extruding.

### Using engineering tools

Files are used to remove material from stock form of metals and plastics. This is known as wastage.

Scribers are used to mark lines for cutting on materials such as metals and plastics.

Centre punch is a tool that is used to create a small depression in material prior to drilling. This helps locate the drill accurately on the material. Tap and die sets are used to created threaded components. A tap used to thread a hole and a die to thread a bar (i.e. a bolt). Hacksaws are a framed saw used mainly to cut metal.

An engineer's square is used in marking out material. It is set at 90° and is also used for parallel marking.

Vernier callipers are used to measure a range of sizes such as length of material, depth of holes, internal openings, etc.

Micrometres are highly accurate measuring tools used to measure sizes, i.e. material width/thickness.

Reamers enlarge, smooth, or contour an existing drilled hole in a work piece for a precise fit when installing fasteners or other parts in metalworking tasks.

Shears and snips are used to cut sheet metal. They may be straight or curved depending on the task.

In addition to the examples above, tools can also include items used on items of equipment known as tooling: Knurling tools are used to put a textured grip onto a metal bar using a lathe. A boring bar is used to enlarge a drilled hole to a precise dimension. They are available for a lathe or a milling machine. Parting tools are used on a lathes to form a narrow slot to assist in the removal of a work piece from the stock/waste material to remove.

### Yr10 Engineering

### **Properties of materials**

**BZP steel** is corrosion resistant because it has a coating of zinc, but it does not last forever. It has good tensile strength and can be machined to produce a screw thread. It is easier to work with than some other materials such as stainless steel. It is good to use for the screws, bolt and clamp because they need to be strong and durable.

**Stainless stee**l is corrosion and stain resistant and has good chemical resistance properties. It is not a good electrical conductor, and most type of stainless steel are magnetic. Stainless steel is hard, has good tensile strength and can be also be machined. This makes it good for the screws and bolts that will get covered in mud and rain. Polyurethane 12 **Polyurethane** is a thermoset polymer and has good heat resistance. It is stiff and does not expand when heated. It is an electrical insulator and does

stiff and does not expand when heated. It is an electrical insulator and does not react with metals.

**Nylon** is a thermoforming polymer that has a high melting point. It can be self-lubricating and has very good wear resistance. It can be cut easily using stamping so washers can be made easily.

**Aluminium** is malleable and can be machined easily. It is also quite strong and light compared to steel. It is durable and does not rust. It can also be cast which makes it good for the calliper parts because they are complicated shapes. It will also keep the bike light.

Ferrous Metals - Contain Iron, eg stainless steel

**Non Ferrous metals** - No Iron, such as bronze or brass or a mixture of metal(alloy) often mixed to make it stronger.

**Thermosetting polymers** - heated, formed once cannot be reformed. Useful where a lot of heat is applied eg. Kettle.

**Thermoforming polymers** - heated and reformed over and over. Eg Acrylic.

ABS - Acrylonitrile Butadiene Styrene

### Terms and meanings

**Scale** informs the engineer what scale should be used when using the drawing. A scale of 5:1 indicates that the drawings are five times smaller than the original product should be. This allows engineers to take dimensions (sizes) directly off the engineering drawings.

**Finishes** information gives details on what the finish of the part or product would look like, for example, a knurled finish on a tightening clamp. **Detail views** are sometimes used by engineers to explain the details of more complex parts in an engineering drawing.

**Title blocks** are used to display key sections of information about the drawing, i.e. scale, who made the drawing, the date it was drawn, the drawing number.

Orthographic views are the standard views used to lay out a set of engineering drawings. They must conform to British standards (BS8888) to allow a common format of presenting information to various people such as manufacturers.

**Section views** show a drawing of a part that may have been cut through to allow the reader to see further details. Isometric views are often used by engineers and designers to produce a three-dimensional representation of the product or part

### **Casting and Forging**

	Description	Examples	Reasons
Sand casting	Molten metal is poured into a mould created in sand. The mould is made by a wooden pattern, and metal is poured through a hole in the sand. The mould is in two parts called a cope and drag, which are separated to remove the completed item.	Man-hole cover Car parts	Dimensional accuracy is not vital. Can be used for large items.
Die casting	Molten metal is forced under high pressure into a mould. The mould is usually made from two parts of hardened tool steel.	Toy cars	Large quantities, which need to be accurate, are produced.
Investment casting	A pattern is made from wax, which is then surrounded by clay or other ceramic materials. Once completed, molten metal is poured into the mould, sometimes with pressure applied.	Compressor wheels	Used for complex shapes with a high degree of accuracy.

	Description	Examples	Reasons	
Drop forging A heated workpiece is held in a fixed die. A hammer or upper die is then dropped, using gravity, on to the workpiece to form it.		Engine cam shaft	High production rate. Used for small to medium- sized shapes. Good dimensional accuracy.	
Press forging			Metal penetrates the whole object.	
Upset forging	Usually only one end of a bar needs to be shaped. The heated end of the workpiece is gripped in a fixed die and then struck by a moving die with a hammer blow.	Bolt head	Only one end needs shaping.	

### Manufacturing processes

### Cutting processes

**Drilling** - holes, either all the way through or flat bottomed.

Sawing - mechanical or manual cutting of material Filing - removing sharp edges or shaping round edges. Shearing

### Shaping processes

**Turning** - producing a range of shapes and diameters of round bar

**Milling** - removing material to create slots or parallel lines, grooves, recessess.

### Forming processes

Casting - sand casting or die casting in a die (mould).
Forging - drop forging, upset forging, forcing heated metal into shape through shaping machinery.
Extruding - forcing soft polymer through a die.
Moulding - vacuum forming or injection moulding.

### Joining and fabrication processes

**Fastening** - mechanical join between two components eg screws, nuts, bolts.

Bonding - glue and adhesives.

**Soldering** - melting solder to join electric components to a circuit board.

Brazing - Joining different metals together using heat.

### Features of an engineered product

### Dimensions - Size

**Tolerance** - How much bigger or smaller can a product be and still fit/work?

Surface finish - measure in micrometres ( $\mu$ m). How it might look or wear or resistant to corrosion/rust water.

**Physical form** - 2D 3D flat curved. Is it long joined to something, sharp edges etc.

### **Properties of materials**

**Mild steel** - Good tensile strength, malleable and ductile.

Stainless steel - Tough and corrosion resistant

Wrought iron - Corrosion resistant and malleable

**Aluminum** - Soft, malleable, conductor of heat, corrosion resistant.

Titanium - Low density, good level of durability

**Copper** - Tough, ductile, good conductor of electric.

Polyurethane - Strong and impact resistant.

Acrylic - Stiff Durable and an insulator.

**Polypropylene** - Strong and resistant to stress and cracking,

### **Modern materials**

Modern composite materials	Properties of the material	Examples of typical uses	Reasons for use	Improvement s on traditional materials
Carbon fibre	Very high strength- to-weight ratio, easy to mould, does not rust	Formula 1 cars, aircraft parts, racing cycles	High strength, corrosion-resistant, high performance material	Much stronger for the same weight of material. Much easier to form by layering up or moulding
Kevlar ®	High tensile strength, chemical resistant, non-flammable	Bullet-proof vests, helmets, guitar strings	Allows body armour to be lighter, therefore user can move more easily	Approximately five times stronger than steel by weight
GRP	Corrosion-resistant, durable, electrical insulator, inexpensive	Boats, garage doors, car body panels	Generally very strong and robust, lightweight, easy to form in complex shapes	More easily formed and stronger than metal for its weight



Relief	f of the UK		Areas		T	Types of Erosion	Туј	pes of Transportation	Ma	ass Movement	
can b	<sup>F</sup> of the UK e divided		+600m: Peaks and ridges cold,	The l		own and transport of rocks – oth, round and sorted.	•	ocess by which eroded aterial is carried/transported.	ma	arge movement of soil and rock debris that oves down slopes in response to the pull of nvity in a vertical direction.	
lowla have	iplands and nds. Each their own		misty and snow common.	Attritio n		Rocks that bash together to become smooth/smaller.	Solutio n	Minerals dissolve in water and are carried along.	1	Rain saturates the permeable rock above the impermeable rock making it heavy.	
chara Key	cteristics.	5405T	i.e. Scotland Areas -	Solutio n		A chemical reaction that dissolves rocks.	Suspensio n	Sediment is carried along in the flow of the water.	2	Waves or a river will erode the base of the slope making it unstable.	
Lowla	nds	19 383	200m: Flat or rolling hills.	Abrasio n		Rocks hurled at the base of a cliff to break pieces apart.	Saltatio n	Pebbles that bounce along the sea/river bed.	3	Eventually the weight of the permeable rock above the impermeable rock weakens and	
Uplan	ds		Warmer weather. i.e. Fens	Hydraul c Action		Water enters cracks in the cliff, air compresses, causing the crack to expand.	Tractio n	Boulders that roll along a river/sea bed by the force of the flowing water.	4	collapses. The debris at the base of the cliff is then	
Form	ation of Coas	stal Spits - Deposition			Тур	pes of Weathering				removed and transported by waves or river.	
		Material moved along Coastline changes beach in zig-zag way direction		Weathe		the breakdown of rocks where they are.	Suspension	Solution		Original position Slumped mass	
Daw	ample: awlish varren.			Carbon	Carbonation Breakdown of rock by changing its chemical composition. What is Deposition?			Formation of Bays and Headlands			
	Preva bring at an	Prevailing winds bring waves in at an angle Material deposited in shallow, calm water, to form a spit			nical	Breakdown of rock without changing its chemical composition.	When the sea or river loses energy, it drops the sand, rock particles and pebbles it has been carrying. This is called deposition.			1) Waves attack the coastline. 2) Softer rock is eroded by	
2) 3)	Backwash mov Zigzag movem	up the beach at the angle of the prevailing win ves down the beach at 90° to coastline, due to ent (Longshore Drift) transports material alon ises beach to extend, until reaching a river est	gravity. g beach.	Physical Landscapes in the UK						<ul> <li>Hard rock</li> <li>3) More resistant rock is left jutting out into the</li> </ul>	
5)	Change in prev	vailing wind direction forms a hook. behind spit encourages deposition, salt mars			M	echanical Weathering Example:	Freeze-thaw w	eathering		Headland sea. This is a headland	
0,	Sheltered area	How do waves form?		Stage (	One	Stage Two When the		Stage Three		and is now more vulnerable to erosion.	
14/	lavos aro cros	ated by wind blowing over the surface of		Water s into cra	•	water freez it expands	es,	With repeated freeze-thaw	For	mation of Coastal Stack	
	the sea. As t	the wind blows over the sea, friction is I - producing a swell in the water.		and frac in the ro	tures	about 9%. T wedges apa the rock.	A55 A	cycles, the rock breaks off.	1) 2)	Hydraulic action widens cracks in the cliff face over time. Abrasion forms a wave cut notch between HT	
		Why do waves break?	Size of	waves			es of Waves		3)	and LT. Further abrasion widens the wave cut notch	
1		Waves start out at sea.	• Fetch	how far		Constructive Waves		Destructive Waves	4)	to from a cave. Caves from both sides of the headland	
2	As waves ap	proaches the shore, friction slows the ba	the w	vave has lled	This	wave has a <b>swash that is strong</b> e	er This v	vave has a <b>backwash that is</b>	5)	break through to form an arch. Weather above/erosion below –arch	
3	This c	causes the orbit to become elliptical.	• Stren the w	gth of vind.	tha	an the backwash. This therefore builds up the coast.		onger than the swash. This erefore erodes the coast.	6)	collapses leaving stack. Further weathering and erosion eaves a stump.	
4	Unt	il the top of the wave breaks over.	How wind	long the has		Long wevelength Strallow Strallow	wash Steep gradient waves	Tall waves with shart wavelength		Example: Old Harry	
	beel beel			blowing	giuner					Rocks, Dorset	

GEOGRAPHY

			Water Cycle Key Terms					Lower Course of a River				
Hard Engineeri	ng Defences			Precipitation	Moisture falling	g from clouds as rain,	snow or hail.	ear the river's mo	outh, the river widens further and	becomes flatter	r. Material transported	l is deposited.
Groynes	Wood barriers	1	Beach still accessible.	Interception	Vegetation prev	vent water reaching t	he ground.	Formation of	Floodplains and levees		Natural levees	
	prevent longshore drift,	×	No deposition further down coast = erodes	Surface Runoff	Water flowing o	over surface of the lar	nd into rivers	When a river floo	ods, fine silt/alluvium is deposite	d <sup>mp</sup>		1 (k)
	so the beach can build up.	faster.	Infiltration	Water absorbed	d into the soil from th	e ground.		or. Closer to the river's banks, th s build up to form natural levees.	1 4F 3 / 16W 1		A State	
Sea Walls	·		Long life span Protects	Transpiration	Water lost thro	ugh leaves of plants.		-	rich soil makes it ideal for	TI	River	ALL BY
	break up the energy of the	×	from flooding Curved shape encourages		Physical and Huma	n Causes of Flooding		✓ farming.	for building houses.			
	wave . Has a lip to stop waves going over.		erosion of beach deposits.	Long periods of	g & heavy rainfall rain causes soil to ed leading runoff.	Physical: Geology Impermeable rocks runoff to increase		River Managen Soft Engineering	nent Schemes	Hard Engineer	ring	
Gabions or Rip Rap	Cages of rocks/boulders absorb the waves energy, protecting the cliff behind.	√ √ ✓ ×	Cheap Local material can be used to look less strange. Will need replacing.	<i>Physical:</i> Relief Steep-sided valle to flow quickly in greater discharg	Physical: Relief       Human: Land         Steep-sided valleys channels water       Tarmac and c         to flow quickly into rivers causing       impermeables		te are	Afforestation – plant trees to soak up rainwater, reduces flood risk. Demountable Flood Barriers put in place when warning raised. Managed Flooding – naturally let areas flood, protect settlements.		Straightening Channel – increases velocity to remove flood water. Artificial Levees – heightens river so flood wa is contained. Deepening or widening river to increase capa for a flood.		flood water
Soft Engineerin	g Defences			Near the source, the river flows over steep gradient from the hill/mountains. This gives the river a lot of energy, so it will erode the					nd River Discharge			
Beach Nourishment			Beach for tourists.	r	riverbed vertically to form narrow valleys.			River discharge	e is the volume of water that discharge at a certain point in			
Managed Retreat	travel further before eroding cliffs. Low value areas of the coast are left to flood & erode.	×	replacing. Offshore dredging damages seabed. Reduce flood risk Creates wildlife habitats. Compensation for land.	Rander reck	1) River flo	ws over alternative ty odes soft rock faster o nydraulic action and a l beneath.	reating a step.	<ol> <li>Peak dischar a period of time</li> <li>Lag time is th peak rainfall and</li> </ol>	he delay between nd peak discharge.	Runoff (cumecs) - 10	Peek How/Dishage	
Coastal Case St	udies			Harder rock		k above is undercut l pses providing more	• •	3. <b>Rising limb</b> is the increase in river discharge.				
	<b>ires of Erosion &amp; Dep</b> sistant Limestone / c soft rock)			avret rock	erosion.	I retreats leaving stee		4. Falling limb	is the decrease in to normal level.		Baseflow/ Ground Water Day 2 Day 3 Time	Flow OS. Alconnes Day 4
			ruding area of resistant ant rock. Cliffs and wave	Middle Course	of a River			Case Stud	ly: The River Tees			
cut platforms. C	Caves. Arch Stack e.g. eposition: Beaches /	Old	Harry Rocks			he water has less e erode laterally mal						North Sea
Lyme Regis: Ma				Formation of Me	anders & Ox-bow La	kes		Landforms of erosion: V shaped valleys interlocking spurs e.g. North Pennines. Waterfalls and gorges e.g. High Force				
Reasons: Layer cake geology, susceptibility to landslides, powerful destructive waves in autumn/winter Method: coastal management at Lyme Regis has involved two focus areas: 1. Beach front - to combat wave attack hard engineering has used (groynes, the Cobb extended, sea wall, rock armour). Beach nourishment has also been used. 2. Slopes – to prevent landslides soil nailing/piling has been used. Effects			Step 1 Erosion of outer ban forms river cliff. Deposition inner ban forms slip off slope.			Step 2 Further hydraulid action and abras of outer banks, r gets smaller.		Landforms of deposition: Meanders and oxbow lakes e.g. Dalton on Tees. Levees and floodplains e.g. Croft on Tees. Estuary e.g. Tees Estuary Banbury, Cotswold Hills: Flood Management Reasons: Near River Cherwell, a tributary of the River Thames		, has a history of floodi ategy: Built embankmen	nt parallel to	
(benefits): 140 p	properties protected, ards beach, improves	, seci	ures tourism (worth £994 ess. Financially benefits		itep B rosion breaks throug		Step 4 Evaporation and deposition suts	M40 to create flood storage area – area where rainwater is stored. Flow control structures backing up water behind gate in reservoir rather then continuing towards the town. Raise A361 main road plus improved drainage, new pumping station, creation of Biodiversity action plan				Raise A361 ion plan

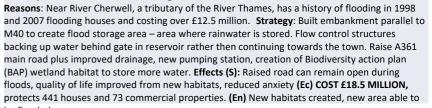
neck, so river takes the

flow

fastest route, redirecting

Conflicts (costs): £21 million, environmental impact e.g. Langmore Gardens, terminal groyne syndrome

### Evaporation and deposition cuts off main channel leaving an oxbow lake. he flooded



1. What are Natural Haza	rds?	4. Effects of Tectonic Hazards			8. Com	paring Earthquakes – Nep	al and Chil	le		
and volcanoes that have the	•	Primary effects happen immediately the primary effects an	y. Secondary effects happe Id are therefore often later			Vepal. April 2015. Magnitu	ude 7.8.		7th February 2010 nitude 8.8.	LICs suf
humans and property. Hazar tropical storms	rds include tectonic hazards, and forest fires.	Primary - Earthquakes	Secondary - Ear	rthquakes			Primary I	Effects		fer n
What affects hazard risk? Population growth Global climate change Deforestation Wealth - LICs are particularly at risk as		<ul> <li>Property and buildings destroyed.</li> <li>People injured or killed.</li> <li>Ports, roads, railways damaged.</li> <li>Pipes (water and gas) and electricity cables broken.</li> </ul>	repairing property. - Blocked transport hir emergency services. - Broken gas pipes cau	<ul> <li>Blocked transport hinders</li> <li>emergency</li> <li>services.</li> <li>Broken gas pipes cause fire.</li> <li>Broken water pipes lead to a lack of</li> </ul>		aths jured ),000 homes destroyed buildings including ra Tower fell tals and 50% of schools destro	oyed Secondary	Cost of damage \$30	troyed dly damaged / 56 hospitals damaged	LICs suffer more than HICs from natural disasters because they are not as prepared and struggle to react effectively.
they do not have the money to protect		Primary - Volcanoes	Secondary - Vo	olcanoes	Avalanch	ne on Mount Everest killing 19	people.	1500km of roads da	maged cutting off	ıral d le to
2. Structure of the Earth The earth has 4 layers The core (divided into		<ul> <li>Property and farm land destroyed.</li> <li>People and animals killed or injured.</li> <li>Air travel halted due to volcanic ash.</li> </ul>	- Possible flooding if ic	rive. ce melts	Nepal's C Rice seed	ncome from tourism (which w GDP). d stored in homes was ruined d. This caused food shortages.	as homes	Coastal towns devastated by tsunamis -		lisasters bec react effecti
inner and outer), mantle	Crust	- Water supplies contaminated.	Tourism can increase a to watch.	as people come			Immediate F	diate Responses		
and crust.		5. Responses to Tectonic Hazards	s contraction of the second seco			quested international help. Craised \$126 million.	International help for field hospitals National emergency services acted quickly			they
The crust is split into major sections called <b>tectonic</b> <b>plates</b> . There are 2 types of crust: <b>Oceanic</b> (thin and younger	Plates either move towards each other ( <b>destructive</b> margin) away from each other ( <b>constructive</b> ) or past each	Immediate (short term) - Issue warnings if possible. - Rescue teams search for survivors. - Treat injured.	- Improve building regulations		Red Cross- tents for 225,000 people. UN and WHO distributed medical supplies to the worst districts. Facebook launched a safety feature so people could indicate they were safe.			Power & water services restored to 90% s to within 10 days National appeal raised \$60 million, enou		are not as prep:
but dense) and Continental (old and	other ( <b>conservative</b> ). These plates move due to	<ul> <li>Provide food and shelter, food and drink.</li> </ul>	nd - Restore utilities. - Resettle locals elsewhere.			Long term responses				ared
thicker but less dense).	convection currents in the mantle and, where they meet, tectonic activity	- Recover bodies. - Extinguish fires.	Develop opportunities for recovery of economy.     Install monitoring technology.		Rebuilding. World Heritage Sites reopen June 2015. Longer climbing season.			Strong economy meaning they didn't need much foregin aid. 4 years to fully recover. Reconstruction started 1 month after even		and
9. Global atmospheric circ	(volcanoes and earthquakes) occurs culation	tectonic activity On the	plate boundaries. edge of continents. he edge of the Pacific.	7. Reducing t		of tectonic hazards	Constructive m			
At the equator, the sun's ra							+		Natura	
This means it is hotter. The	his one fact causes global	3. Earthquakes and Volcanoes		Monitor	ring	Prediction	-	$ \neg                                   $		
atmospheric circulation at different latitudes. Surface Wind Bands Low pressure Rising ar High pressure Bescending ar 30% Horse tatitudes Northeast trade winds Compositions		- Constructive margins – Hot magma rises between the plates e.g. Iceland. Forms Shield volcanoes Destru	Earthquakes ructive margins – small earthquakes es pull apart. uctive margins – earthquakes as	Seismometers earth move Volcanoes g gases	ement. give off	By observing monitoring data, this can allow evacuation before event.	Conservative margin		Hazards	<b>S</b>
		oceanic plate subducts pressur under a continental plate. release	re builds and is then ed.	Protecti	ion	Planning		Ji sour ist	A - A	
Rising air High pressure Descending air	east trade winds 30% Westerlies 60% Bar easterlies 90% High presure	plate to melt and pressure plates s forces magma up to form other. composite volcanoes e.g. as pres	vative margins – ide past each hey catch and then ure builds it is I e.g. San Andreas		building at absorb ent. ut offs for	Avoid building in at risk areas. Training for emergency services and planned evacuation routes and drills.	Destructive marg	gin	AQA	

### GEOGRAPHY

10. Tropical Storms	12. Typhoon Haiyan, Pl	hilippines, N	lovember 20	013	14. Climate Change – n			Global Temperature, 1880 - 2014 Land - Ocean Index: 1951-1980 Base	
Occur in low latitudes between 5° and 30° north and south of the equator (in the tropics). Ocean temperature needs to be above 27° C. Happen between summer and autumn.	Primary Effects At least 6340 killed		\$14 Billion o	0	Evidence for climate of humans were on the plan However, the <b>rate</b> of	iet. So som of change	ne of it must be natural. since the 1970s is	0.6	
	5m Storm Surge 90% buildings in Tacloban destroyed		Water supply polluted 130,000 houses destroyed, leaving 4.2 million homeless Public Order – Looting		unprecedented. Humans Mr <sup>-1</sup> 15. Causes	s are respo Trump say	•	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	
HUBICANES			Airports unusable for supplies		Natural - Orbital changes –	- Fossil 1	Human fuels – release carbon	Source: Goddard Institute for Space Studies (GISS) and Climate Research Unit (CRU), prepared by ProcessTrends.com, updated by globalissues.org	
HURRICANES	Immediate Respon			g-term Responses raised \$300 million.	The sun's energy on the Earth's surface	dioxide	with accounts for 50% nhouse gases.	16. Evidence for Climate Change	
EQUATOR Areas in which tropical storms form Typical path	public buildings. Disaster Emergency Comm helped 3,316,500 people outside t	ittee	Typhoon wa improved.	arning systems have been now better educated	changes as the Earth's orbit is elliptical its axis is tilted on an angle. - Solar Output –	- Agricu around gases du	I <b>ture</b> – accounts for 20% of greenhouse ue to methane tion from cows etc.	The Met Office has reliable climate evidence since 1914 – but we can tell what happened before that using several methods.	
11. Sequence of a Tropical Storm	centres by providing aid. UK aid charities provided s	helter,		ale state	sunspots increase to a maximum every 11	• •	oopulations and g demand for met and	Ice and Sediment Cores	
<ol> <li>Air is heated above warm tropical oceans.</li> <li>Air rises under low pressure conditions.</li> </ol>	food and medical supplies	food and medical supplies.		Diretestion	years. - Volcanic activity – volcanic aerosols	- Defore	rease contribution. estation – logging and a land for agriculture	<ul> <li>Ice sheets are made up of layers of snow, one per year. Gases trapped in layers of ice can be analysed. Ice cores</li> </ul>	
<ol> <li>Strong winds form as rising air draws in more air and moisture causing torrential rain.</li> </ol>	Monitoring wind	Avoid build	ning ling in high	reflect sunlight away increases carbon dioxide in			es carbon dioxide in	from Antarctica show changes over the last 400 000 years.	
<ol> <li>Air spins due to Coriolis effect around a calm eye of the storm.</li> <li>Cold air sinks in the eye so it is clear and dry.</li> </ol>	patterns allows path to be predicted. Use of satellites to monitor	predicted. Use of Emergency	cted. Use of Emergency drills		and stilts to make safe Flood defences e.g. levees and sea walls	temperatures temporarily.	carbon	o planet to absorb through ynthesis.	<ul> <li>Remains of organisms found in cores from the ocean floor can by traced back</li> <li>5 million years.</li> </ul>
<ol> <li>Heat is given off as it cools powering the storm.</li> <li>On meeting land, it loses source of heat and moisture so</li> </ol>	path to allow evacuation			Replanting Mangroves	17. Effects			Pollen Analysis	
loses power.	13. Somers	oods. Feb - I	March 2014	Social Environmental			- Pollen is preserved in sediment. Different species need differer		
2.23 The formation of a tropical cyclone Eye-calm, clear sky Dirrus canopy Eye wall	Wettest January since reco depressions making wet w Feb (100mm over average	everal weeks.	350mm of rain in Jan /	<ul> <li>Increased disease eg. skii cancer and heat stroke.</li> <li>Winter deaths decrease milder winters.</li> </ul>		<ul> <li>Increased drought in</li> <li>Mediterranean region.</li> <li>Lower rainfall causes</li> <li>food shortages for</li> </ul>	conditions.		
Cumulonimbus clouds Up to 250 km		Effects		Crop yields affected by up to 12% in South America but will and Indonesia.			- A tree grows one new ring each year. Rings are thicker in warm, wet		
Annuards	No deaths. 600 homes flo	oded, evacua	ation, power s	supplies off, stress	increase in Northern Euro will need more irrigation. - Less ice in Arctic Ocean increases shipping and ext		- Sea level rise leads to flooding and coastal erosion.	conditions - This gives us reliable evidence for the last 10 000 years.	
Wrinds get allonger favoret fre dage wall - of steade sets rever in - Wall individual and wall individual and all individual an		Economi	ic Effects		of oil and gas reserves. - Droughts reduce food an		habitats of polar bears.	Temperature Records	
Climate change will affect tropical storms too. Warmer oceans will lead to more intense storms – but not necessarily more frequent ones.	Difficult to report cost. Ea suggest £147 million. Live				water supply in sub-Sahar Africa. Water scarcity in So and South East UK. - Increased flood risk. 70%	outh 6 of Asia	- Warmer rivers affect marine wildlife. - Forests in North America may	- Historical records date back to the 1850s. Historical records also tell us about harvest and weather reports.	
18. Extreme weather in the UK		Environme	ntal impacts		is at risk of increased flood - Declining fish in some are		experience more pests, disease and		
Rain – can cause flooding damaging homes and business. Snow & Ice – causes injuries and disruption to schools and business. Destroys farm crops.	Sewage polluting fields, do reoxygenated before bein	-	water had to be	affect diet and jobs. - Increased extreme weath - Skiing industry in Alps threatened.	her	forest fires. - Coral bleaching and decline in biodiversity.			
Hail – causes damage to property and crops. Drought – limited water supply can damage crops.	Management strategies		Man	naging Climate Change	tineatenea.				
Wind – damage to property and damage to trees potentially leading to injury.	Homeowners coped as best they could, using sandbags to protect homes. Villages								
Thunderstorms – lightning can cause fires or even death. Heat waves – causes breathing difficulties and can disrupt travel.	used boats to go shopping etc. Army was deployed to	rnative energy production w uction. Iting Trees – helps to remove	temperature patterns and threat of disease and pests.						

### GEOGRAPHY

assistance.

### Learning Aim A - HEALTH CARE CONDITIONS

Conditions	Symptoms	Needs	Professionals
Arthritis	A condition affecting the joints, causing inflammation, pain and difficulty with movement.	<ul> <li>Medication to reduce swelling and pain</li> <li>Physiotherapy to increase mobility</li> <li>Lifestyle changes, such as improved diet and increased exercise to help joint function</li> <li>Surgery to replace joints like knees and hips</li> <li>Regular medical examinations to monitor effectiveness of treatment</li> <li>X-rays, MRI scans or CT scans to check progression of condition</li> <li>Mobility aids to help support movement</li> <li>Adaptations to home to help with mobility</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Rheumatologist</li> <li>Physiotherapist</li> <li>Dietitian</li> <li>Radiologist</li> <li>Surgeon</li> <li>Occupational therapist</li> </ul>
Coronary heart disease (CHD)	A condition where the arteries are blocked by fatty deposits, leading to difficulties with the flow of blood, causing pain in the chest and upper body and shortness of breath.	<ul> <li>Medication to lower cholesterol and blood pressure, to stop clots from forming and to increase blood flow to the heart</li> <li>Low fat and low salt diet to reduce cholesterol</li> <li>Increased exercise to improve heart function</li> <li>Support to stop smoking to reduce damage to the heart</li> <li>Meditation and relaxation to reduce stress</li> <li>ECG monitoring to check heart function</li> <li>Surgery to widen blocked arteries or heart bypass</li> <li>Surgery to implant pacemaker</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Dietitian</li> <li>Practice nurse</li> <li>Counsellor</li> <li>Cardiologist</li> <li>Surgeon</li> </ul>
Dementia	A condition affecting the brain, causing impairments to cognitive skills including memory and thinking and leading to behavioural difficulties.	<ul> <li>Medication to improve symptoms such as memory loss and confusion</li> <li>Lifestyle changes such as to diet and exercise to improve quality of life</li> <li>Personal care</li> <li>Safeguarding</li> <li>Emotional support</li> <li>Stimulating activities to improve cognitive skills, such as reminiscence</li> <li>Regular medical examinations to monitor progression of condition</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Homecare worker</li> <li>Care assistant</li> <li>Specialist dementia nurse</li> <li>Geriatrician</li> <li>Psychiatrist/neurologist/ psychologist</li> </ul>
Diabetes (type 2)	A condition where not enough insulin is produced or where the body cannot use the insulin that is produced, causing difficulties regulating glucose levels. This can lead to tiredness, weight loss, excess thirst and extreme tiredness.	<ul> <li>Changes to diet, exercise and weight management to help manage blood sugar levels</li> <li>Medication to help control blood sugar levels</li> <li>Self-monitoring of blood glucose levels at home</li> <li>Regular medical examinations to monitor progression of condition</li> <li>Blood tests to monitor glucose levels and inform treatment plan</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Practice nurse</li> <li>Specialist diabetes nurse</li> <li>Dietitian</li> <li>Endocrinologist</li> </ul>
Obesity	A condition where a person is significantly overweight with a body mass index (BMI) above 30 kg/m <sup>2</sup> , causing risk of developing serious conditions such as heart and liver disease and diabetes.	<ul> <li>Lifestyle changes to lose weight including diet and exercise and reduction of alcohol intake</li> <li>Medication to reduce appetite, increase metabolism, or block the absorption of fat</li> <li>Weight loss surgery to reduce food intake or to re-route food to block the absorption of calories</li> <li>Regular blood tests may also be recommended to monitor cholesterol and blood sugar levels</li> <li>Weight loss monitoring to inform treatment plan</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Dietitian</li> <li>Practice nurse</li> <li>Psychologist/therapist/counsellor</li> <li>Personal trainer</li> </ul>

### Learning Aim A - HEALTH CARE CONDITIONS

Conditions	Symptoms	Needs	Professionals
Asthma	A condition affecting the lungs, causing the airways to narrow and leading to difficulties in breathing and wheezing.	<ul> <li>Inhalers to prevent asthma attacks and give relief from the symptoms of an attack</li> <li>Medication to reduce inflammation in the airways and improve lung function</li> <li>Peak flow monitoring to track lung function</li> <li>Regular medical examinations to monitor and adjust treatment plan</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>Practice nurse</li> <li>Asthma clinic team</li> <li>Emergency responders</li> <li>Paramedics</li> <li>A&amp;E doctors and nurses</li> </ul>
Chronic obstructive pulmonary disease (COPD)	A condition affecting the lungs where the airways become narrow. Symptoms include shortness of breath, coughing, wheezing and chest tightness, which can worsen over time and significantly impact daily activities.	<ul> <li>Medication to relax the muscles around the airways, making it easier to breathe</li> <li>Oxygen to help with breathing</li> <li>Lifestyle changes to diet and to stop smoking</li> <li>Physiotherapy to improve lung function and reduce symptoms</li> <li>Regular monitoring of lung function to adjust medication</li> <li>Chest X-rays and CT scans to monitor changes in lungs</li> <li>Emergency plans in place</li> </ul>	<ul> <li>GP</li> <li>Pharmacist</li> <li>District nurse</li> <li>Radiologist</li> <li>Cardiologist</li> <li>Emergency responders</li> <li>Paramedics</li> <li>A&amp;E doctors and nurses</li> </ul>
Sensory impairment	A condition in which one or more of the senses (sight, hearing, taste, smell, touch) is affected, resulting in conditions including vision and hearing impairment.	<ul> <li>Aids such as corrective lenses, glasses or contact lenses (vision), hearing aids (hearing)</li> <li>Assistive devices such as magnifiers or screen readers can also be used to aid reading and other visual tasks. Hearing loops can be used where available</li> <li>Surgery such as cochlear implants</li> <li>Regular medical assessments to ensure that any changes or developments in the condition are detected and managed appropriately</li> <li>Communication strategies such as sign language, lip reading or speech therapy</li> </ul>	<ul> <li>Optician</li> <li>Ophthalmologist</li> <li>Audiologist</li> <li>Sign language interpreters</li> <li>Speech therapist</li> <li>Occupational therapist</li> </ul>
Physical impairment	A condition in which a person's physical abilities are limited, making it difficult to perform certain tasks or activities. This can include conditions such as paralysis, amputation, mobility issues, deterioration of muscles and flexibility due to pain or the ageing process.	<ul> <li>Physical examinations to identify the extent of the impairment</li> <li>Medication for pain and inflammation</li> <li>Surgery</li> <li>Rehabilitation after injury or surgery</li> <li>Physiotherapy</li> <li>Assistive devices including prosthetics and mobility aids</li> <li>Lifestyle changes including changes to diet and exercise plans</li> </ul>	<ul> <li>Pharmacist</li> <li>Physiotherapist</li> <li>Orthopaedic surgeon</li> <li>Occupational therapist</li> <li>Homecare worker</li> <li>Dietitian</li> </ul>
Learning disability	A condition that affects a person's ability to learn and process information. People with learning disabilities may have difficulty with reading, writing, maths, personal or social skills.	<ul> <li>Assessment to determine the type of disability and the individual's needs</li> <li>Individualised Education Plan (IEP) outlining any adjustment needs for educational settings</li> <li>Therapies, such as speech therapy, occupational therapy and psychological therapies</li> <li>Acquisition of life skills and independent living skills</li> <li>Support for and protection of rights and choices</li> <li>Advocacy to assist with expressing needs and wishes</li> </ul>	<ul> <li>Psychologist</li> <li>Learning disability nurse</li> <li>Speech and language therapist</li> <li>Occupational therapist</li> <li>Support worker</li> <li>Teaching assistant</li> </ul>

### Learning Aim A - HEALTH CARE SERVICES AND CASE STUDIES

Primary care	Secondary care	Tertiary care	Allied health professionals
This is the first point of contact that an individual	This is more specialist treatment or care usually	This is specialised health care which is accessed	Professionals who work in a range of
has with health services. Individuals would usually	given in a hospital or a dedicated clinic. Service	by referral from a primary or secondary health	specialisms, who support individuals who have
decide to use a primary care service themselves,	users are commonly referred to secondary care	professional. Tertiary care facilities will have staff	physical and mental health problems. They are
by self-referral, because they have symptoms	services by a primary care professional like a	and facilities for advanced medical investigation	involved in treating, rehabilitating and improving
indicating that they have a health problem.	GP via professional referral.	and treatment.	the lives of patients.

Allied health professionals include physiotherapists, speech and language therapists, occupational therapists, dietitians, art therapists, drama therapists, osteopaths, paramedics, prosthetists, radiographers, podiatrists, operating theatre practitioners and orthoptists.

# Jan is 20 years old and has recently had problems catching her breath. She is experiencing a tight chest and wheezing.

### Apply it:

### How can primary care services meet the specific health needs of Jan who has asthma?

Jan can self-refer by booking an appointment with her GP. The first step is for the **GP** to formally diagnose Jan and assess the severity of her asthma. This may involve conducting lung function tests like peak flow, reviewing her medical history and asking about her symptoms.

Once Jan's asthma has been diagnosed, primary health services can provide her with the appropriate medications to manage her symptoms. This may include inhalers to open her airways and reduce inflammation.

Once the doctor has prescribed the medication, she would be able to go to a local pharmacy or chemist where the pharmacist would dispense the medication. The **pharmacist** could also answer any general queries Jan has about the medication, such as how often she should take it, potential side effects and how the asthma medication may interact with any other medications Jan takes.

Jan will need educating about asthma management, including how to use her inhaler correctly, recognising triggers that can cause an asthma attack, and understanding the signs and symptoms of worsening asthma. This can be provided at the regular asthma clinics held at her GP's surgery by the **practice nurse**.

If Jan experiences a severe asthma attack or other complications, she may need emergency treatment. This can be provided by **emergency responders, paramedics** and the **A&E department**, and will usually involve the use of nebulisers to stabilise her condition.

### Apply it:

### How can secondary care services meet the specific health needs of Jan who has asthma?

If Jan's asthma is not well-controlled with primary care, she may need to be referred to a specialist clinic at the local hospital. Specialists at an **allergy clinic** can investigate what may be triggering the asthma attacks. They will question Jan about her medical history and any family history of allergies. They will also carry out skin and blood tests to try and identify a potential trigger for Jan's asthma attacks.

Another service that can be provided at Jan's local hospital is **the asthma clinic**. At the clinic, additional tests can be undertaken, such as detailed lung function tests, measurement of inflammation in the lungs, blood tests, sputum analysis and CT scans which are not available at a GP's surgery. At the clinic, specialists provide expert advice on managing her condition.

Specialist asthma nurses can help Jan develop an asthma action plan; a personalised plan that outlines steps to take when her asthma symptoms worsen. The plan includes a list of medications to take, signs to look out for, and when to seek medical attention.

If Jan's asthma symptoms are not well-controlled with her current medications, the specialist clinic can look at some non-standard treatments and can adjust her medication to find a more effective treatment plan.

### Apply it:

### How can primary and secondary services work together to meet Jan's needs?

Primary and secondary healthcare providers will share information with each other about Jan's condition, treatment plan, and any changes to her medications or symptoms. This can help ensure that everyone involved in her care is on the same page and working towards the same goals.

When the GP refers Jan to secondary services, they will write a letter with key information that the secondary service needs to know about Jan's condition and the reasons for the referral. Any results of tests carried out at the asthma or allergy clinics, would be sent to the GP, so that the GP is aware of their findings and can advise Jan accordingly.

Primary and secondary healthcare providers can coordinate their care efforts to ensure that Jan receives the best possible care.

This can include discussing any changes in Jan's condition or treatment plan.

Both primary and secondary healthcare providers can educate Jan about her asthma and how to manage it effectively. This can help ensure that Jan understands her condition and feels empowered to take an active role in her own care.

	Examples	Tei	rtiary Care Additional Services
Primary Care Services	<ul> <li>General Practitioner (GP)</li> <li>Dentist</li> <li>Accident and Emergency (A&amp;E)</li> <li>Optician/Optometrist</li> <li>Walk In Centre</li> <li>Pharmacist</li> </ul>	Rehabilitation	<ul> <li>Helps people recovery from illness or injury</li> <li>Restores the person back to their original state such as someone who has had a stroke, may have a rehab</li> </ul>
Secondary Care Services	<ul> <li>Cardiologist</li> <li>Psychiatry</li> <li>Paediatrics</li> <li>Neurology</li> <li>Orthopaedics</li> <li>Gastroenterology</li> </ul>		programme which is based around physiotherapy - For individuals who have an illness or disease which has no cure - They help to manage pain,
Tertiary Care Services	<ul> <li>Specialist care in the following areas:</li> <li>Spinal surgery and recovery</li> <li>Cardiac medication, surgery and recovery</li> <li>Cancer care extra support</li> <li>Pain management</li> <li>Premature and poorly newborn babies</li> </ul>	Palliative and End of Life Care	physical symptoms, improve quality of life and offer emotional and spiritual support to the individual and their family
Allied Health Care Professionals	<ul> <li>Physiotherapist</li> <li>Paramedic</li> <li>Dietician</li> <li>Occupational Therapist</li> <li>Speech and Language Therapist</li> <li>Art Therapist</li> </ul>	Hospice at Home	<ul> <li>Is a service that provides expert care and support for people who have advanced illnesses at home</li> <li>Support is given by nurses and carers who work closely with a GP/doctor and community team</li> </ul>

### Learning Aim A - SOCIAL CARE

### **Reasons For Needing Support**

Children and Young Adults	Adults and Children with Specific Needs	Older Individuals
<ul> <li>Parents/carers are ill</li> <li>Family relationship problems</li> <li>Child may need protection (eg from abuse and neglect)</li> <li>Child may have behavioural issues or profound additional needs</li> </ul>	<ul> <li>Learning Disabilities</li> <li>Sensory Impairments</li> <li>Long Term Health issues</li> </ul>	<ul> <li>Breathing problems</li> <li>Depression</li> <li>Dementia</li> <li>Osteoporosis</li> <li>Arthritis/ Poor mobility</li> </ul>

SOCIAL Care Services/Providers		
	Services for Children and Young Adults	
Foster Care - For children who are unable to live with family - It could be for a short period of time until they can return home - Or it could be for long periods of time and may lead to adaptation or independent living - Foster homes provide a safe and stable environment for a children to grow and develop	Youth Work Services - Is a service which supports young people aged between 11 and 25 years old - They help with personal and social development and help you build skills to ensure that you are independent and building a better future for yourself	Residential Care Homes - Is a place where children and young adults live together - They provide a living environment where you all play a part and continue life as normal, such as attending school - They provide you with everything you would need to grow and develop
	Services for Adults and Children with Specific Needs	
Residential Care - For individuals who have specific care needs and are safer living in residential care than their own home - They provide accommodation, laundry and meals - Different residential care homes could be for either, learning, sensory or long term disabilities - The staff are trained to support the specific needs and are available 24 hrs	<ul> <li>Domiciliary Care</li> <li>This is where care workers visit the individual at home to help with their personal care and other daily activities</li> <li>Some individuals require even more specialist care, and this can be provided as long as the carer is training. Such as feeding tubes</li> </ul>	Respite Care - Is a service/place where the family of the individual who has a specific need can have some free time - The individual can be looked after trainer carers either at the family home or in a residential care home - It allows for the family to have a break from being a 'carer' and relax without the pressures of looking after someone
Services for Older Adults	Additional Care	
<ul> <li>As we get older, our body systems function less effectively and we may require additional help in some areas of our lives</li> <li>Older people normally want to stay at home, so if they can they can be supported by a carer or a personal assistant</li> <li>They may need to move into a residential care home or nursing home where support is provided on a day to day bases such as cleaning, cooking and personal care.</li> </ul>	Informal Care - Is given by friends, family or neighbours - They are not qualified carers and are not paid (unless they meet the carers allowance criteria) - They can help with household task, such as cooking, cleaning - They can help with personal care, such as washing, feeding and dressing - They can also provide company to prevent loneliness and isolation	Voluntary Care Charities - Voluntary organisations that support individuals and their families e.g Homestart. Faith-based groups – Supporting Individuals who share religious or Spiritual beliefs e.g. Islamic relief. Community groups – Support within the community. E.g. Food banks

### Learning Aim A – BARRIERS TO ACCESSING SERVICES

Barriers To Care Services		
Physical barriers Something that stops someone physically accessing the service they need e.g. Stairs into a GP surgery	<b>Cultural barriers</b> Something which reduced a persons' ability to access a service due to cultural beliefs, practices and needs e.g. worrying they will be judged or not taken seriously because of their beliefs	Intellectual/ Learning Disabilities barriers Cannot access services because they did not know about them or cannot fully understand the information or requirements of them, their condition or their care
Sensory barriers Something which reduces a persons' ability to access a service due to a sensory impairment e.g. not being able to hear what is happening around you due to a deterioration in hearing	<b>Psychological barriers</b> Affecting the way an individual thinks about a service preventing them from trusting or using the services due to anxieties or mental health conditions	Language barriers Something which reduces a person's ability to access a service due to not understanding the words or language used e.g. having English not as a first language
<b>Social barriers</b> Cannot access services because they struggle in social situations	<b>Geographical barriers</b> Being unable to access a service due to location, e.g. poor public transport in a village making it difficult to get to the local GP surgery	<b>Financial barriers</b> Being unable to access a service due to money e.g. not being able to afford care/therapies or prescriptions

#### **Physical Barriers and Overcoming Them**

People can struggle with accessing care services, which could be caused by the building facilities or if the individual has a specific condition or disability which requires them to use mobility equipment, such as wheelchairs or walking frames.

We would also need to consider how the individual actually get to each care service as this may also cause some difficulties.

It is also important to think about the physical difficulties individuals may face when during their appointment/consultation or procedure. An individual who has arthritis in their next and back may find it painful to sit in a dentist chair for long periods of time.

Why People Struggle With Access	Overcoming Access Difficulties
<ul> <li>Uneven and rough pavements/surfaces</li> <li>Building with narrow doorways/corridors</li> <li>Small bathroom facilities</li> <li>Getting on and off public transport</li> <li>Not having lifts or lifts that work</li> <li>Getting up steep slopes</li> <li>Climbing numerous amounts of steps/stairs</li> <li>Bad weather - rain, ice or snow</li> <li>Slippery surfaces due to rubbish or leaves</li> </ul>	<ul> <li>Facilities to provide ground floor and easy access</li> <li>Facilities to provide electric doors</li> <li>Facilities to adapt buildings to ensure wide corridors, doorways and ensure working lifts</li> <li>Plan routes carefully to avoid obstacles</li> <li>Plan appointment/access for quieter days</li> <li>Keep mobility equipment regularly maintained such as replacing batteries in electric wheelchairs</li> <li>Avoid busy times when traveling to care service</li> <li>Have allocated parking closer to the entrance</li> <li>Install hoists to help move physically disabled patients safely</li> </ul>

#### **Geographical Barriers and Overcoming Them**

People who need to access health and social care services may have problems which stops them from travelling long distances or there may also be difficulties if the individual does not drive. However even if a service user did live close, there are still some geographic barriers which they must face even on short distances.

Reasons for Geographic Barriers	Overcoming Geographical Barriers
<ul> <li>Direct transport links may not be available especially if you live rurally</li> <li>Travelling to an appointment multiply times a week can be exhausting, especially for people who are poorly</li> <li>Specialist services such as chemotherapy may only have one facility in the local area, meaning travel is needed</li> <li>Cost of fuel and car parking when travelling</li> <li>For those who walk, the route may be unsafe</li> <li>Public transport may not run at the times which is it needed to make an appointment</li> </ul>	<ul> <li>Voluntary services may offer transport to and from hospital or GP appointments</li> <li>Mobile treatment units may travel to your area, so you could plan your check up or treatment</li> <li>Hospital offers refunds on car park charges for specific treatments such as cancer</li> <li>Offering home visits for patients struggling to travel</li> <li>Family members may be able to drive you to your service if you do not have a car</li> <li>Partner may drive you if you are feeling too poorly or unwell</li> </ul>

#### **Financial Barriers and Overcoming Them**

In the UK, we do not pay for majority of our NHS treatments, due to our taxation scheme. For example, seeing a doctor or using the emergency service are all free under the NHS.

Reasons for Financial Barriers	Overcoming Financial Barriers
<ul> <li>However, there are some health and social care services which are NOT free:</li> <li>Optical and Dental Care and Prescriptions</li> <li>Complementary Therapies such as massages which could help muscular pain</li> <li>Care support such as private care assistants who help with cooking, cleaning, dressing and day to day activities</li> <li>Chiropody (treatments of the feet, sometimes for painful conditions when walking)</li> <li>There are also additional costs which need to be considered:</li> <li>Petrol and parking charges</li> <li>Taxi or Bus charges</li> <li>Loss of income during treatment</li> <li>Childcare costs when at appointments</li> </ul>	<ul> <li>You may meet specific criteria which means you are exempt (you do not have to pay) such as being under the age of 16 = free dental care, prescriptions and eye care including glasses)</li> <li>Claiming back costs if they meet specific criteria such as the NHS Low Income Scheme</li> <li>Purchasing an NHS Prescription Prepayment Certificate, which is a one-off cost, however it covers all prescriptions and dental care.</li> <li>Asking family members to help you, however this in itself may cause other difficulties</li> <li>NHS vouchers are available to some people to reduce the cost of eye tests, glasses and lenses</li> </ul>

#### Social and Cultural Barriers and Overcoming Them

Social background refers to how a person was raised and their position in society.

Cultural background refers to the groups or communities a person belongs to, based on factors such as their race, religion and gender.

People from different social and cultural backgrounds can experience different barriers such as...

Reasons for Social and Cultural Barriers	Overcoming Social and Cultural Barriers
Lack of awareness	Lack of awareness
<ul> <li>People not knowing what their symptoms are</li> </ul>	✓ Services can run awareness campaigns or distribute posters and leaflets to educate
<ul> <li>Not being aware of the services available to them</li> </ul>	people
Differing cultural beliefs	Differing cultural beliefs
May have different needs such as diet, specific prayer time or may	✓ Services should listen and respect the needs of a person and should try and meet them
wish to be treated by someone of the same gender	✓ Making sure there is a range of foods available
Social Stigma	✓ Offering a choice of service providers
<ul> <li>Is when a person is seen in a negative way and maybe</li> </ul>	<ul> <li>Arranging tests and procedures to avoid prayer times</li> </ul>
discriminated against, due to health condition, mental and sexual	<ul> <li>Making sure there is a place for a person to prey or worship</li> </ul>
health	Social Stigma
People are less likely to visit a service if their feel their needs are	✓ Educating people about stigmatised conditions, by leaflets and posters in waiting rooms
not being meet	Fear of loss of independence
Fear of loss of independence	$\checkmark$ Work with the individuals to help them stay as independent as possible
<ul> <li>Maybe reluctant to get help if they think it will affect their</li> </ul>	✓ Allow them to make their own choices
independence eg maybe moved into a residential care	<ul> <li>Helping people do things for themselves instead of doing it for them</li> </ul>

#### Language Barriers and Overcoming Them

Language barriers normally affect people that speak English as an additional language (their first language is not English) or people who have a language or speech impairment.

Reasons for Language Barriers	Overcoming Language Barriers
<ul> <li>Doctors using jargon (technical words) when talking to a patient</li> <li>People having an accident or being taken ill in another country where they do not speak the language at all</li> <li>Patients in English speaking countries understanding and speaking very little English</li> <li>Information leaflets only available in one language</li> <li>Care providers using clang or phases specific to their own language</li> <li>Speech impairments (eg a stutter) making it difficult for patients to express their needs</li> </ul>	<ul> <li>Explaining complex medical information in simpler terms</li> <li>Using interpreters in both face to face and phone appointments</li> <li>Having longer appointment times to allow time for longer explanations</li> <li>Having information leaflets available in multiple languages</li> <li>Avoid using slang or phases that others might not understand</li> <li>Training staff to be aware of common speech and language difficulties</li> <li>Having an advocate – a person to help a patient express their needs</li> </ul>

### Learning Aim B – Skills, Attributes and Values

# Skills and Attributes in Health and Social Care

- ✓ Problem Solving
- ✓ Observation
- ✓ Dealing with difficult situations
- ✓ Organisation
- ✓ Empathy
- ✓ Patience
- ✓ Trustworthiness
- ✓ Honesty

### Obstacles that individuals face

- **M** Lack of motivation
- \*\* Self-esteem issues]
- # Stress
- **H** Previous bad experiences
- M Anxiety
- **H** Lack of support
- **M** Time constraints
- **H** Unachievable targets
- He Lack of resources
- 🖶 Disability
- **Health Conditions**
- **H5** Addiction

### Values within H&SC

Value	Definition
Communication	The exchange of information between two people that helps to provide care and support.
Care	Looking after and providing for the needs of a person.
Compassion	Working with empathy, respect, and dignity.
Competence	Skills and knowledge to understand a person's needs and to deliver effective care, based on research.
Courage	Doing the right thing for the people being cared for and speaking up when concerns arise.
Commitment	A determination to improve the quality of care.



specification document

Benefits of skills, attributes and values.

- High quality care
- Person-Centred Care
- Respect
- Independence
- Involvement in care decisions
- Not discriminated against
- Protected from harm
- Able to raise complaints
- Protected dignity and privacy
- Rights promoted
- Confidentiality maintained

### **Learning Objectives**

A – Understand the different types of health and social care services and barriers to accessing them.

B – Understanding the skills, attributes and values required to give care.

Empowerment and Independence	Maintaining Confidentiality
<ul> <li>Empowerment if the feeling of being in control of your life and the decisions you make. However we can lose empowerment when we become poorly or are in vulnerable situations.</li> <li>Some individuals need help with being empowered, because of their age, circumstance or level of confidence - for example: <ul> <li>Children and young people</li> <li>Children and adults with specific health care needs</li> <li>Individuals with learning disabilities</li> <li>Individuals with physical disabilities</li> <li>Older individuals</li> </ul> </li> <li>Individuals with physical disabilities</li> <li>Older individuals</li> <li>Individuals with physical disabilities</li> <li>Older individuals</li> </ul> <li>Men individuals are making decisions they will need to make decisions based on their care and treatment, therefore it is important that we give them the choice to choose what they feel is right for them.</li> <li>When individuals are making decisions they will need the following: <ul> <li>To have all the information available (advantages and disadvantages) which will enable them to make an informed safe choice</li> </ul> </li> <li>Many individuals will feel they have lost control/independence of certain aspects of their day to day routine, so it is important that we allow individuals to continue with daily tasks independently and safely as possible. This could be though: <ul> <li>Adapting activities such as fitting a stair lift, or putting handrails in the bathroom</li> <li>Providing pieces of equipment such as walking frames, wheelchair or a grabber Individuals can also be empowered through being provided an advocate. An advocate is someone who can help them put forward their views when they are unable to.</li> </ul> </li>	<ul> <li>By law, it is a person's right to have their personal information kept confidential (private). Some of a service users information which health and social care workers must keep confidential is as followed: <ul> <li>Address and who they live with</li> <li>Health issues, test results, planned treatment and allergies</li> <li>Religion, beliefs, sexual preferences</li> <li>Where they work and their financial details</li> <li>It is also important that care workers know exactly how to keep information safe. Some methods could be:</li> <li>Passwords on all computers and electrical devices</li> <li>Locking paper files away in locked cabinets or rooms</li> <li>Don't leave files left unattended for others to see</li> <li>Do not discuss service users in open spaces or to people who do not have the right to know</li> </ul> </li> <li>If care works 'breach' confidentiality (passing on private information) it could cause a lack of trust for the service user. It may also lead to anxiety and fear of that service and the care workers. Social media is a platform where private information could be available and health and social care workers must be extremely careful when dealing with their organisations social media. For example: <ul> <li>A care worker in a residential care home takes a picture of the local primary schools visit and posts it on their facebook page. This know means that all the children who are in that photo have their face on social media. THis could be putting some children at risk.</li> </ul> </li> </ul>
Respect for Others	Preserving Dignity
<ul> <li>Respect is considering other people's views and opinions and treating them in a courteous way regardless of how you personally feel.</li> <li>It is very easy to jump into a conversation to express your own view, yet this may lead to an argument and falling out with family and friends. Respect is about trying to understand someone else's views and opinions and being able to: <ul> <li>Be tolerant of others</li> <li>Accept their views (as we hope they accept ours)</li> <li>Accept and keep an open mind about different behaviours and faiths</li> </ul> </li> <li>Respect is also about privacy and we can respect privacy in some of the following ways: <ul> <li>Gain permission before entering someone's personals space</li> <li>Provide a private area to talk about sensitive issues</li> <li>Do not leave personal records around for other people to see</li> <li>Do not access someone else's phone without permission</li> </ul> </li> <li>Respect is extremely important when it comes to individuals with mental health conditions. It may be hard to understand someone's views/choices when they have a mental health condition, however we must respect them. The attitudes of the care workers can influence if an individual with mental health conditions and accept that ideas/views may change quite quickly</li> <li>Promote independence</li> <li>Involve the individual in all decision making</li> <li>Support the individual without imposing your own views</li> </ul>	<ul> <li>Health and social care workers need to work hard at keeping (preserving) their service users dignity. Dignity is about considering how an individual may feel in a certain sensitive situations, such as: <ul> <li>Going to the toilet</li> <li>Need help showering/taking a bath</li> <li>Dressing</li> <li>Eating and drinking</li> </ul> </li> <li>If individuals lose their dignity, it results in them feeling embarrassed and ashamed and may if prolonged, cause anxiety, depression or isolation.</li> <li>Carers can show they care about an individuals dignity by: <ul> <li>Closing doors/curtains when an individual is washing/dressing or going to the toilet</li> <li>Keeping their private areas covered</li> <li>Speaking quietly and use appropriate language when discussing sensitive and personal topics</li> <li>Ensuring an individual's clothes, hair and face are clean</li> <li>Dealing with embarrassing situations, quickly, sensitively and professionally.</li> </ul> </li> <li>Care workers who do not demonstrate dignity may do some of the following which can cause the individual to feel unvalued, disrespected or embarrassed: <ul> <li>Using children's feeder cups instead of age appropriate equipment that has been adapted</li> <li>Not discussing with a person what their care will be</li> <li>Telling the individual that they should use a bedpan or incontinence</li> <li>Rushing a person</li> </ul></li></ul>

Effective Communication	Safeguarding and Duty of Care
<ul> <li>Communication is a basic need. It is the key to all relationships, for example, with family and friends, in work, at school, socially and formally. Poor ineffective communication between individuals can often lead to problems. You might have heard the phrase a breakdown in communication to describe a relationship that has failed. Building trust and relationships in health and social care is crucial. Trust can easily be lost if the care worker appears not to care all be interested.</li> <li>Electronic Communications:</li> <li>These days, it is common for carers to communicate electronically both of service users and with colleagues. It is important to consider tone and impact, especially in short messages.</li> <li>For example: <ul> <li>Using capital letter gives a feel of shouting or impatience</li> <li>Short statements may appear code and to direct</li> <li>Messages might be misunderstood by the reader (communicating electronically does not have the support of body language that verbal communication does</li> </ul> </li> <li>Service Users who may need help with communication: <ul> <li>English is not their first language</li> <li>Visual difficulties including because they have dementia or brain damage</li> <li>May have a combination of the above</li> </ul> </li> <li>Good Communication: <ul> <li>Adapt their care worker will be able to:</li> <li>Adapt their communication style to suit the audience</li> <li>Make service users feel respected</li> </ul> </li> </ul>	<ul> <li>Safeguarding is about keeping people safe from harm.</li> <li>Service users have a right to be safe.</li> <li>Care workers have a legal duty to protect service users.</li> <li>If a carer understand is a sign of danger and harm they will be able to protect their service users</li> <li>Types of abuse.</li> <li>Physical, emotional, sexual, financial, neglect, domestic violence, modern slavery, discriminatory abuse, and cyber bullying.</li> <li>Safeguarding individuals:</li> <li>It is important that care workers recognise the signs and symptoms of abuse so they can protect people. Symptoms on their own do not always indicate abuse. Carers need to look at the whole picture. For example, an individual with bruises could've fallen recently. But several unexplained bruises at different stages of healing would make you suspicious. Several signs together would make you strongly suspect abuse.</li> <li>What Do To:</li> <li>If you were a care worker and you suspected someone was being bullied or abused, here are some things you would do: <ul> <li>Report the abuse, the person could be in danger</li> <li>Never promised to keep the abuse secret make it clear that you need to tell someone more senior than you</li> <li>If you could not talk to someone in the workplace you could tell a responsible adult who could help to contact the inspection team, a team that checks a care service for being properly run</li> </ul> </li> </ul>
show you are interested – verbally and non-verbally do not judge use active listening skills give the person time to understand and respond display open body language use their name be positive be positive be positive be positive be positive show empathy adapt communication to meet the need of the person give appropriate eye contact, but do not stare ask questions	<text><text><list-item><list-item><list-item><list-item><list-item></list-item></list-item></list-item></list-item></list-item></text></text>

#### **Promoting Anti-Discriminatory Practices**

#### What is Discrimination?

Discrimination means treating a person or group of people unfairly or less well than others. Discrimination may be obvious. However, sometimes it is more subtle or hidden. It is against the law to discriminate. The following are known as protected characteristics. The equality act of 2010 makes it illegal to discriminate based on these points. For example, it would be illegal to discriminate against anyone in a job interview based on their:

- Age
- Disability
- Gender reassignment
- Marriage and civil partnership
- Pregnancy and maternity
- Race
- Religion or belief
- Sex
- Sexual orientation

#### Why People Discriminate:

When someone discriminates against another person it may be because they have a stereotyped idea of what the person is like. They do not see the person as an individual, they see them as a member of a group based on, for example, their religion, race or gender. They make assumptions about the individual based on what they think they know. For example, they may assume that or older people are frail and weak. This is having a prejudiced attitude.

In childhood, we learn from the people around us. If these people have prejudiced attitudes, then we may grow up believing those attitudes are right. Often, we are unaware of our prejudice, but they can make us act in ways that discriminate against other people. We need to think about our attitude and make sure we do not use discriminatory behaviour.

#### Effects of Discrimination:

The effects of discrimination are devastating for the victim and for others who know them. Discrimination can result in

- Feeling isolated and depressed
- Disempowerment (loss of control over life)
- Physical health problems such as digestive, heart and skin problems
- Low self-esteem and mental anxiety
- Suicide

#### Anti-Discriminatory Practice:

There are many ways of promoting anti discriminatory practice in health and social care, for example:

- Having patience with others who do not speak English very well
- Communicating in a way that the person will understand
- Showing tolerance towards people who have different beliefs than you
- Respect in the health and care choices that individuals make
- Not getting involved in a discriminatory behaviour is that others show
- Challenging unkind behaviours

Working in anti discriminatory way will demonstrate that you value a person and their differences.

#### **Case Studies**

**Empowering/ Independence:** James has arthritis. His joints are sore and swollen. He used to be a journalist and write a lot. He wants to discuss his meal choices and how to be as independent as possible whilst eating.

**Respect:** Nathan is about to have his 3<sup>rd</sup> birthday. His mum wants to invite everyone from his nursery to his party and is preparing invitations. Some of Nathan's friends are Jehovah's Witness but Nathan's mum wants them to be there without being disrespectful to their beliefs.

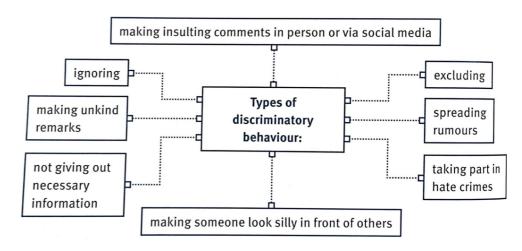
**Confidentiality:** The medical records of 26 million patients are embroiled in a major security breach amid warnings that the IT system used by thousands of GPs is not secure. The Information Commissioner is investigating concerns that records held by 2,700 practices - one in three of those in England - can be accessed by hundreds of thousands of strangers.

**Dignity:** Ana is receiving palliative care, she recently had a course of chemotherapy and has lost her hair. She had always been very particular about her appearance. She is nearing the end of life and Justine is helping her with her care in the hospice, Justine wants to maintain her dignity where possible.

**Communication:** The lack of communication across the NHS is "completely shocking", the Health Secretary said yesterday as he disclosed that 11 people died last year after being given the wrong medication. The NHS needs to improve communication to staff and patients.

**Safeguarding/ duty of care:** There were 12 chances to save the life of this eight year old girl. Instead, she died of 128 injuries. On 25 February 2000, months of abuse and neglect finally overcome Victoria Climbié and she's declared dead. The torture she's suffered includes starvation, cigarette burns, repeated beatings with bike chains and belt buckles. And hammer blows to her toes. Many will blame the Haringey social worker, for not doing more to prevent the abuse and the social care system that utterly failed to protect an innocent child.

Anti-discriminatory practice: Violet aged 84, had an appointment to have an operation on a bunion on her big toe. However, because of her angina, she was sent for a heart scan. She said: "They found that it was not angina, but a leaky valve. "I asked if I could have this fixed. The attitude from doctors was: 'What are you bothered about, at your age?'.



#### Box A: Key words and definitions

- Democratic republic Country without king or queen. People vote for leaders.
- 2. Constitution Set of written rules for the country.
- 3. President Leader of United States. Elected every 4 years.
- 4. Congress Similar to UK parliamant
- 5. States Smaller political units which form the United States.
- 6. Federal power -States had own government.
- Representatives Politicians from each state which helped make laws for whole country.
- Territory Area with few people. No state government and controlled by Congress.
- 9. Supreme Court Highest court in USA
- 10. Secede Leave a union.
- 11. Segregated Separate for black and white people.

#### Box D: Removal of Eastern tribes (1830 - 38)

- 1. The 'Five Civilised Tribes' in south-east tried to adapt and live alongside white Americans.
- 2. Cherokee used same political structure as USA, set up capital city, used money, had a written language, set up schools and churches.
- President Jackson persuaded Congress to pass the Indian Removal Act (1830) and set up Indian Territory in Oklahoma.
- 4. Many tribes were unhappy with this.
- Government used range of tactics to remove Eastern tribes between 1830 - 1838. This included warfare, treaties, use of concentration camps and forced removal to Indian Territory.
- 6. 4000 Cherokee died in 'Trail of Tears' forced-march..

### Box E: Lives and culture of Plains Indians (natives)

- Plains were vast and dangerous grassland. White Americans thought they were inhabitable before 1840s. Few resources e.g. water or wood. Extreme temperatures.
- 2. Sioux tribe divided into 3 groups: Lakota, Dakota and Nakota.
- 3. Moved permanently from near Minnesota to Plains in 1830s when other natives filled up their homelands to escape white expansion.
- Lakota were skilled with horses and followed buffalo herds. They, had guns from white traders from 1830.
- Similarities and differences in the culture of the different tribes. Main features were: nomadic lifestyle, led by powerful warrior, buffalo used for food and homes (tipis), belief in Great Spirit and land could not be bought nor sold.

#### Box B: Growth of USA (1789 - 1838)

- 1. USA became independent from Britain in 1783.
- USA was a democratic republic. Only white, male, propertyowning Americans could vote.
- 3. USA made of smaller states with a governor in charge. Could make own laws but not if they went against Constitution.
- 4. Each state sent representatives to Congress where they would help make new laws for whole country.
- 5. The President could suggest laws but Congress had to agree them.
- 6. 13 states in 1790. Other land lived in by natives or claimed by European powers.
- There were 26 states by 1838, particularly in the northwest. This was due to expansion of slavery, buying land from France, and fighting with natives then taking their lands.

### The Making of America 1789 - 1900



#### Box F: Journey to Oregon and California

- Large number of whites travelled up to 3000 miles from 1840s. Most travelled over land using wagons to carry belongings. 20 miles per day.
- Push and pull reasons for moving West: Banking system collapse in 1837, explorers began to map safe routes, California taken from Mexico by USA in 1848, Manifest Destiny, belief in converting natives to Christianity and advertising campaigns.
- Bought supplies at meeting place then travelled with company (group) across trails and Rocky Mountains. Natives often helped at rivers.

#### Box G: Mormon settlement of Utah

- 1. Religious group set up in 1800s.Practiced polygamy (marrying many wives).
- 2. Brigham Young chose Utah to build Salt Lake City in late 1840s.
- 3. Planned from beginning with irrigation ditches and Mormon Church decided how much land each family got.
- 4. Nobody owned water. Modelled on streets of Paris. Temple at centre.

#### Box C: Growth of Deep South (1793 - 1838)

- Cotton was key to wealth. 42% of all exports in the South by 1820. Factories in the North bought and made it into cloth.
- 2. Many Presidents were from the South and did not stop growth.
- Eli Whitney invented the cotton gin in 1793. It could separate fibres more quickly and process it 50% faster. More slaves were needed to pick raw material.
- Slaveholders from the original 13 states opened new plantations in the Deep South with loans from banks who would make a profit from the interest charged.
- 5. Children of slaves automatically became slaves themselves.
- Slaves could not vote but it was decided that each was worth 3/5th of a vote in 1787. This gave the white Americans in the South a third more electoral votes in Congress than the North. The interests of slaveholders were maintained until 1861.
- Many in North felt the South was too powerful. Worried new state joining USA (slave or free) would upset balance of power. A handful of abolitionists believed slavery was morally wrong.
- Missouri Compromise created in 1820 to solve concerns.Virtul line across middle of country. Any state joining USA below that line could vote whether to be slave or free.

#### Box H: California Gold Rush (1848)

- Discovery of gold in California led to a rush of settlers from 1848. Over 50,000 whites headed west to 'strike it rich'.
- 2. Natives forced from land to set up mining camps.
- Mining settlements were heavily male dominated, often full of gambling dens and saloons. Robberies and murders more common than in other places. Women worked as prostitutes or did domestic chores e.g. cooking and laundry.
- 4. A lot of money made but often not through gold-mining. Smallbusiness owners sold shovels, sifting pans, maps and supplies.
- California applied to become a state in 1849. Declared free (without slavery) in 1850. Threw delicate balance of free / slave states into crisis.
- 6. San Francisco grew to be a city and busy trading port by 1850.
- 7. Huge numbers of Chinese went to find riches by 1851.
- 8. Crushing mills needed to extract gold from rock after 1852.
- Huge impact on Plains. Miners travelled across natives' hunting ground. Government forced to sign Fort Laramie Treaty. Law brought in which allowed natives to be sold into slave labour.
- Mining caused environmental destruction in California, clogging rivers with silt and putting harmful chemicals into water supply.
   Led to demands to connect country up fully with railroad.

HISTORY

#### Box I: Pike's Peak Gold Rush (1858 - 59)

- 1. Land occupied by Cheyenne Indians. Over 100, 000 arrived by 1859.
- 2. Farms established to feed those in mining towns e.g. Denver
- 3. Settlement in Kansas showed Plains were not deserts and encouraged settlers.
- 4. Settlement of Kansas broke treaties made between USA and natives in 1850s. They began to fight back. By 1860, war inevitable.

#### Box P: Reversal of Radical Reconstruction (1870 onwards)

- Radical reconstruction was not popular in South. Many white business owners in North became rich from building railways or factories in South. Nicknamed carpetbaggers.
- 2. Freedman's Bureau shut down in 1872.
- 3. Many black Americans worked on plantations as sharecroppers.
- 1873: Supreme Court said that voting rights at state level were choice of the state.
- 5. 1875: Supreme Court said not role of government to stop black Americans being bullied out of voting booths.
- 6. 1877: Withdrew soldiers stationed in South after war.

#### Box O: Radical Reconstruction (1866 - 1870)

- 1. Many Republican politicians were extremely angry at Johnson and forced through own changes.
- 2. Freedman's Bureau re-established in February 1866.
- 3. Congress brought in Civil Rights Bill in March 1866 to protect rights of all black Americans.
- Congress proposed the 14th Amendment in April 1866, which said anyone born in USA was a citizen regardless of skin colour. Became law in July 1868.
- Ex-Confederate governments were taken over by North between March and July 1867. People who fought against the Union were banned from voting. Military sent to South to protect rights of black Americans.
- 15th Amendment passed in March 1870, giving all black Americans the right to vote. More than 2000 black Americans were voted into political office by November 1870;

#### Box J: Causes of Civil War

- 1. People in South saw cities and industry of North as too modern and ungodly.
- 2. By 1850, population of North was growing rapidly and gaining more political power.
- 1850 Compromise (law stating free states had to return escaped slaves to their owner) gave power back to slaveholders in South. In return, California became a free state. Many arguments over whether slavery should be allowed as USA grew.
- Kansas-Nebraska Act (1854) overrode Missouri Compromise and allowed states to decide if wanting to be free or slave.
- 5. In 1857, Supreme Court said slaves had no rights and government could not ban slavery in territories.
- 6. Republican Party created in 1854. Anti-slavery. Worried slaveholders in South.

### The Making of America 1789 - 1900



#### Box N: Reconstruction (1865 - 66)

- 1. Lincoln persuaded Congress to make Emancipation Proclamation the 13th Amendment in January 1865.
- 2. Set up Freedman's Bureau, which gave land confiscated from plantation owners to ex-slaves.
- 3. Lincoln shot dead in April 1865 and replaced by Andrew Johnson.
- 4. Johnson believed his most important job was to bring country back together. Forgave thousands of Confederate soldiers. Returned land to plantation owners. South allowed to re-establish own state governments and bring in Black Codes. Stopped work of Freedman's Bureau. Did little to stop Ku Klux Klan.

HISTORY

#### Box K: Trigger of Civil War

- 1. Abraham Lincoln elected President in 1860. Lots of support in North but almost none in South.
- 2. South Carolina voted to secede in November 1860 as a protest for him becoming President.
- 3. By 1861, six other states also seceded and formed the Confederacy. Elected own President, Jefferson Davis.
- Lincoln said the Confederacy and its President was illegal in April 1861. Davis ordered his gunboats to attack a Union fort, Fort Sumter in South Carolina.
- 5. Lincoln declared war in April 1861. Four more states joined Confederacy by June 1861.

#### Box L: Civil War (1861 - 1865)

- 1. Fought between North and South.
- 2. North called themselves Union.
- 3. South called themselves Confederacy.
- 4. 750, 000 people died.

#### Box M: Experience of Black people during Civil War

- 1. In North: Lived in poorer areas with higher rents, segregated education, could get jobs but not in charge of whites, of equal pay or professional e.g. doctor, lawyer etc.
- In South: Most were slaves. If not, could not get jobs. Lived in plantation houses. Disease spread easily. Illegal to learn reading and writing.
- 1861 62: Union refused to end slavery throughout whole of USA but South Carolina was a free state. Ex-slaves began setting up regiments. A lot of opposition to these and they often did hard labour for Union army. Volunteers taught ex-slaves how to read and write.
- 4. 1863 65: Lincoln declared the Emancipation Declaration on 1st January 1863. Freed all slaves across USA upon Union winning war. Thousands of ex-slave men joined the Union army and often did worse jobs. Ex-slave women supported as nurses / cooks. Most black workers in North did not volunteer.
- Race riots happened across Northern cities where whites were forced to join the army and blamed black people for this..

#### **Box A: Homesteaders**

#### People became homesteaders because:

- 1. Homestead Act offered 160 acres of free land is inhabited for 5 years.
- 2. Railroad companies advertised Plains as great place to farm. Unusually high amount of rain in 1860s. New technology made e
- 3. Ex Slaves could but land to farm and escape the South
- Railroads allowed people to sell farmed goods to the cities more easily which helped homesteaders to make a profit.

#### Homesteaders faced problems like:

- 1. Families often lived miles from nearest town. Lonely and isolated.
- 2. Few trees.
- 3. Getting supplies was extremely difficult. People had to improvise.
- 4. Lack of clean water meant cholera and typhoid was common.
- 5. Harsh climate; strong winds, freezing in winter and hot in summer.
- 6. They could not fence the land due to lack of wood.
- 7. The soil was too hard and broke their traditional tools

#### To solve these problems they:

- 1. Would build their homes out of Saud instead of wood as it was cheap and quick
- 2. Use wind pumps to get water from underground. To do this they would drill into the ground and use the power of the winds to pump the water up from Deep below.
- 3. Use dry farming methods to capture what little rain fell by turning the soil to prevent evaporation
- 4. Use new types of crops which could survive the plains, like turkey red wheat.
- 5. Use the new invention of barbed wire which was developed in 1874 this was cheaper and easier than using wood
- 6. Women were very resourceful making what they could from what they had such as soap from fat and fixing and mending clothes.
- 7. They used buffalo dung, or chips, as fuel for their ovens and fires
  - When more people move to the Plains they would work together

### Box C: Growth of Big business (1877 - 1900)

- 1. Big business created opportunities and hardship.
- 2. Cotton: Picked by poorly paid sharecroppers. Changing it into cloth created jobs but low paid.
- 3. Tobacco: 90% controlled by one company. No reason to improve wages.
- 4. Bonanza Farms: People could work there to save for own land. Best land, water and railroad access own by these big companies. Small-scale often could not compete against them.
- Trade unions had little power in mineral industry. Black and Mexican workers used to undermine striking. Black-listing normal.

### The Making of America 1789 - 1900

### Box B: Changing lives of Plains Indians (1877 - 1900)

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- 1. After 1877, government policy towards natives became harsher.
- 2. Natives forced onto reservations after Great Sioux War. Supplies, medical aid and rations were low.
- 3. Growth of railroad brought many hunters to the Plains. They killed 3 million buffalo by 1883. Government did little to stop them.
- Homesteaders, ranches and big businesses on Plains pushed many tribes to starvation. Again, government did little to stop this.
- Government destroyed culture. Tribes sent to different reservations. Lived in houses not tipis. Forced conversion to Christianity. Forced education, often in boarding schools away from family. Children forced to choose English names and beaten if they did not speak English. Dawes Act in 1887 gave natives 160 acres of land and citizenship if they gave up tribal lands.
- 6. Ghost dance was last major attempt at resistance. Religious movement of 1890s. Believed white settlers would be swept off land and buffalo would return if they danced / prayed. Banned by government. Army killed over 250 believers at Wounded Knee.

#### Box E Changing Lives of African Americans 1877 - 1900

- 1. Black Americans continue to live in poverty after the end of the reconstruction
- 2. the cotton industry collapsed after the Civil War because it costs too much
- 3. black Americans were prevented from getting better paid jobs
- 4. black Americans in the south was sharecroppers
- 5. some black Americans became homesteaders, encourage by Benjamin Singleton
- 6. by 1879 over 6000 black Americans had moved to Kansas these people became known as the exodusters
- 7. there is racism in northern cities
- 8. in 1882 Booker T Washington set up schools to train black children to be Farmers and crafts people
- 9. in 1900 Washington established the Negro business League to support black businesses
- 10. in 1900 there were 23866 black teachers, and 417 black doctors
- 11. in the south Jim Crow laws kept living conditions difficult for Blacks
- 12. Jim Crow laws separated trains theatres churches parks and schools
- there was an increasing number of black authors with over 100 books and 206 journals published by black authors between 1865 and 1893
- 14. there was violence against black Americans due to the Ku Klux Klan who reformed secretly in the 1890s
- 15. there were Redeemer governments who were around by ex slaveholders they tried to undo the changes made by the Civil War
- 16. Redeemer governments put in place and possible literacy tests which prevented black Americans from voting
- 17. in 1905 in Louisiana only 1342 black Americans were registered to vote
- 18. black Americans were lynched in 1892 161 black Americans were lynched

#### Box D: Cities and Mass Migration (1877 - 1900)

- 1. Cities attracted people, especially in West, as they controlled local water supplies and promised work, education and entertainment.
- 2. Often overcrowded, e.g. 32 families sharing 8 storey building, which led to disease. In Chicago, 60% died before 1 year old.
- 3. Driving force in US women getting vote in 1920s.
- 4. Steam ships made travel faster. 600,000 immigrants came from Italy alone in 1890s. Jews and other minority groups left persecution. Needed to pass language test and medical check.
- 5. Immigrants often met racism and hostility. Violence was common. Low wages. Lived in poorest areas of cities.

### HISTORY

#### Box F Railroads

- 1. The new transcontinental railroad United the east and the West of America for the first time
- 2. in 1862 Abraham Lincoln had approved the Pacific railroad act which meant the government gave money to help building the Railroad
- 3. the line was completed in 1869 at The Golden spike ceremony in Utah
- 4. the Railroad have both positive and negative impacts on the USA
- 5. people who invested in the Railroad had become very wealthy from it
- 6. the native Americans were negatively impacted because it disrupted the buffalo. people who use the Railroad could also buy a special ticket which meant they could go out on the special buffalo Hunt which again destroy the native Americans source of life. it also meant that more people came to Settle on native land.
- 7. the people who worked building the Railroad had a terrible time there are over 12000 Chinese immigrants who were building the railways. the Railroad builders were paid very little and it was a very dangerous job
- 8. the Railroad did help America to grow as it created new railroad lines along which towns were built. however some of these towns were very drunken and unruly such as Dodge City.
- 9. overtime the Railroad help to improve Law and Order across America

#### **Box G Cattle Industry**

- 1. The cattle industry grew thanks to the railroads.
- 2. the cattle industry started in Texas here cowboys reared the Texas longhorn cattle
- 3. a few times a year the cattle would be driven which actually means walked to the northern towns where they would be sold. Here the cowboys got a bigger profit.
- 4. after the American Civil War in 1865 soldiers found that their cattle herds had grown massively whilst they had been away fighting
- 5. in 1866 Charles goodnight and Oliver Loving made \$24,000 by selling 2000 cattle to Indians on reservations at Fort Sumner. They had set up a new cattle Trail
- 6. these trails weren't called The Long drives. remember they did not involve cars.
- these drives cause conflict with the native Americans because the cowboys went through Native American land.
- when the Railroad was built Joseph McCoy decided to set up a cow town at the point of a railroad in Kansas, this town was called Abilene and was built in 1867
- 9. Abilene was a place for the Cowboys to take their cattle and then it could be sold to cities in the east using the Railroad.
- 10. Abilene was a drunken place as cowboys who went their off and just went and spent all their money on alcohol prostitution and gambling
- 11. John iliff was a famous cattle rancher who started to ranch on the Plains of America using the open range
- 12. the open range means that the cattle were free to roam
- 13. however the cattle needed a lot of grass and water.
- 14. droughts men that eventually the cattle industry couldn't support itself and it collapsed

## The Making of America 1789 - 1900



#### Box H: Indian Wars

#### There was growing tensions between the Whites and the Natives because

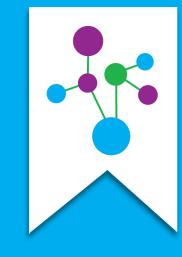
- 1. Growing tension between natives and whites due to impact of gold rushes, railroads, homesteaders and cattle ranches.
- 2. Government began policy of moving natives to reservations (set aside areas of land) so they would not interfere with white settlement.
- 3. The transcontinental Railroad disrupted Indian hunting grounds.
- 4. Gold being discovered at Pikes Peak lead to conflict over land and Resources,
- 5. Natives like the Sioux refused to stay on their reservations

#### The Wars

- 1. Little Crows War This was caused by little crow who have to sign a reservation agreement in 1861 in return for supplies from the US government. The government was not helping them and refused to open up the emergency stores when the Indians were starving in 1862. This led to little crow and his Warriors attacking white farmers because they were desperate for food they killed 500 white settlers. Little Crows people were then attacked by local soldiers, little crow was killed. The survivors were severely punished with 38 being publicly hanged. This made the natives very angry. The remaining Sue were forced to move to a reservation in Dakota
- 2. Red Cloud's War In 1851 the Sioux had signed a treaty with the US government who promise to respect Sioux and this was called The Fort Laramie Treaty. in 1862 gold was discovered on the Sioux reservation and miners began pouring in they created a new trail called the bozeman trail which went right through the Sioux Lands. Red Cloud of the lakota Sioux led attacks against some of the miners in response the US Army set up Forts on Sioux Land. Between 1866 and 1868 red cloud and his Warriors for the US Army eventually the government had to admit defeat. The consequences of this more were a new Fort Laramie treaty which was signed in 1868 it gave the soon more land but they have to promise that they would not attack the Settlers, it also gave them the Black Hills which was sacred land. The government were humiliated.
- 3. The Great Sioux Wars Gold was discovered in the Black Hills of Dakota in 1874, this was the land that had been promised to red cloud in the 1868 fort Laramie Treaty. the government tried to buy the black hills but the Sioux refused as the Black Hills were sacred to them. the US government and frustrated and ordered the Sioux back onto their reservations, however Sitting Bull a powerful chief and his people did not return. on the 25th of June 1876 General Custer found sitting Bulls camp on the Bighorn river. Custer and his 210 cavalry man attacked with 6000 natives. It took just minutes for Custer and his soldiers to be defeated. The natives scalped and mutilated the bodies of the Fallen soldiers. Whilst the natives won this battle they were treated very harshly afterwards they were rounded up by the US Army and rations were stopped on reservations, Sitting Bull fled to Canada, eventually the sewer forced to sell their Lands and move onto even smaller reservations

HISTORY

# **PLYMPTON ACADEMY**



# TERMONE & TWO HANDBOOK YEAR 11