

Now that the revised curriculum has been taught, please consider the Implementation and Impact of the curriculum you taught.
What changes might need to be made to the Curriculum Intent (See Curriculum Map and Overviews) in light of this year's experiences?

Year 8 Overview 2025-26 – Physics

Date	Wk	Week	Units Studied & Learning Outcomes	Key Concepts & Assessment
8 weeks (8 Lessons) (38Days)				
Tues 2-Sep Tues Y7 only Wednesday- whole school	A	1	<ul style="list-style-type: none"> Overview of Unit/No. lessons Electricity and Magnetism/ 14 lessons Lesson Sequence of Content: Lesson 1- Introduction to Electricity Lesson 2- Series and Parallel Circuits Lesson 3- Current in Series Lesson 4- Current in Parallel Lesson 5- Voltage in Series Lesson 6- Voltage in Parallel Lesson 7- Resistance Lesson 8- Magnets Lesson 9- Magnetic Fields Lesson 10- Electromagnetism Lesson 11- DC Motors Lesson 12- Static Electricity Lesson 13- Quick quiz assessment and Application Lesson 14- Long answer question <ul style="list-style-type: none"> <u>Unit Learning Outcomes:</u> GW: Draw circuit diagrams using symbols and be able to recall definitions for key terms current, voltage and resistance. Describe the difference between parallel and series circuits and what happens to voltage and current in them. BI: Describe what resistance is and how it is calculated. Be able to draw magnetic fields around bar magnets and know the impact of Earth's magnetic field. EW: Describe the magnetic effect of a current and how this is applied to Electromagnets and D.C. motors. Explain static electricity in terms of separation of positive or negative charges when objects are rubbed together via transfer of electrons. <p>Assessment</p> <ul style="list-style-type: none"> Students should be able to explain findings using their Science knowledge End of unit quiz Long answer extension question at the end of the unit Application task 	<p>Foundational Concepts: Energy & circuits</p> <p>Outcomes</p> <ul style="list-style-type: none"> Know some standard circuit symbols and what is meant by an electric current State the definitions of current, potential difference and resistance Know the difference between series and parallel circuits Describe what happens to current and voltage in series and parallel circuits Be able to apply the equation linking voltage, current and resistance Complete a simple practical investigating a factor that affects the resistance in a circuit Describe how to measure resistance in a circuit Know what is meant by a magnet and the magnetic elements Know the shape of a magnetic field around a bar magnet Describe Earth's magnetic field and the impact it has on our Planet. Understand what is meant by an electromagnet and how they are used Describe the magnetic effect of a current and how this is applied to D.C. motors. Recognise the effects of static charge. <p>Skills used/learned</p> <ul style="list-style-type: none"> Analysis skills Interpretation skills Evaluation skills Practical skills Mathematical skills <ul style="list-style-type: none"> KW: Electron, series, parallel, circuit, current, voltage, resistance, charge, magnet, magnetic fields, electromagnets, repel, attract, static, motors. <p>Links to root words- Etymology</p> <ul style="list-style-type: none"> Circuit- from Latin circuitus "a going around," from stem of circuire, circumire "go around," from circum "round" Parallel- from Latin parallelus, from Greek parallēlos "parallel," from para allēlois "beside one another,"
8-Sep	B	2		
15-Sep (INSET Friday)	A	3		
22-Sep	B	4		
29-Sep	A	5		
6-Oct	B	6		
13-Oct	A	7		
20-Oct	B	8		

			Prior	Current	Next	
			Year 6- •Making simple circuits •Drawing circuit diagrams	•Current Electricity •Magnetic fields and basic magnetism •Introduction to electromagnetism and DC motors •Introduction to static electricity	Year 10 – •Electromagnetism and motor effect •Applications of electromagnetism in devices Year 11- •Series and parallel circuit rules •Circuit calculations •Control in circuits •Fleming's LH rule & electric motors (H) •Induced potential transformers •Static Electricity Year 12 – •Resistivity •Parallel resistance •EMF & internal resistance •Ideal ammeters and voltmeters.	<ul style="list-style-type: none"> Resistance- from Late Latin <i>resistentia</i>, from present participle stem of Latin <i>resistere</i> "make a stand against, oppose" Motor- from Late Latin <i>motor</i>, literally "mover," agent noun from past-participle stem of Latin <i>movere</i> "to move" <p>Tier 2/3 Vocabulary Referenced on PowerPoint slides, quick quizzes</p> <p>History</p> <ul style="list-style-type: none"> The history of magnets begins with the first discoveries of magnetic stones or lodestones – starting from 1845 this kind of stone was called magnetite. It is a mostly black mineral of iron and oxygen or iron hydroxide, which develops in a natural way by volcanic activity and has its own magnetic property. You can debate who founded 'Electricity'. <ul style="list-style-type: none"> Links to culture <ul style="list-style-type: none"> Electricity is all around them- lighting, they use it to charge their phones, TVs, laptops etc. Magnets are used to make a tight seal on the doors to refrigerators and freezers. They power speakers in stereos, earphones, and televisions. Magnets are used to store data in computers and are important in scanning machines called MRIs. Career ideas- Electricians, Line Installers and Repairers, Electrical and Electronics Engineers, Construction Managers, Power Plant Operators, Distributors and Dispatchers, Cardiovascular Technicians, MRI Technologist Equality Diversity and Inclusion (EDI) links? EDI links: Irène Curie-Joliot (1897-1956) discovered of artificial radioactivity. George Radda- Uses of magnets Edith Clark – first female electrical engineer <i>Parent and Carers month/Black History month</i> <i>World afro day</i> <i>International day of sign languages</i> <i>world mental health day</i> <i>world teachers day</i> <i>World cerebral palsy day</i> Assessment (Quiz/Tests/application tasks/ ST: Including foundational concepts, wider disciplinary knowledge, key content.)
			<p>Common misconceptions</p> <ul style="list-style-type: none"> Current is used up as it flows Electricity flows to components not through them Electric and magnetic fields are the same All metals are magnetic All magnets are made of iron Larger magnets are always stronger Magnetic and geographic poles are in the same location Attraction to a magnet means the object is also a magnet 			

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Half-Term		7 weeks (?? lessons) (35 Days)					
3-Nov	A	9		<i>Mens health awareness month/disability confident month</i> <i>Diwali</i> <i>Remembrance Sunday</i> <i>Transgender awareness week</i> <i>World Diabetes Day</i> <i>World AIDS day</i> <i>Christmas Day</i>			
10-Nov	B	ST1 (core only)					
17-Nov	A	ST1 (core only)					
24-Nov	B	12					
1-Dec	A	13					
8-Dec	B	14					
15-Dec	A	15					
Christmas Holiday		6 weeks (6 lessons) (30 Days)					
5-Jan	B	16	<u>Overview of Unit/No. lessons</u> Waves & Light/ 11 lessons <ul style="list-style-type: none"><u>Lesson Sequence of Content:</u> Lesson 1- Luminous & non-luminous objects Lesson 2- Transparent, translucent & opaque Lesson 3- Shadows Lesson 4- Reflection Lesson 5- Refraction Lesson 6- The eye Lesson 7- Dispersion and Colour Lesson 8- Coloured light and filters Lesson 9- Water waves and superposition Lesson 10- Quick quiz Lesson 11- Long answer <table><tr><td>Prior</td><td>Current</td><td>Next</td></tr></table>	Prior	Current	Next	Foundational Concepts: Waves Outcomes <ul style="list-style-type: none">Know that light travels in straight lines and the evidence for this. Be able to produce a ray diagram showing how we see objectsKnow that light can travel through a vacuum and the speed of lightKnow the relationship between the angle of reflection and angle of incidenceKnow the difference between specular and diffuse reflectionKnow what is meant by refraction and draw a diagram to show itBe able to draw ray diagramsCompare the structure of the eye to camerasKnow what is meant by dispersion and the colours in the visible light spectrumBe able to explain what colour filters do to lightBe able to explain the difference between primary and secondary coloursKnow that waves can be reflected, and add or cancel- superposition Skills used/learned <ul style="list-style-type: none">Analysis skillsInterpretation skillsEvaluation skillsPractical skillsMathematical skills <ul style="list-style-type: none">KW: luminous, non-luminous, light, opaque, transparent, translucent, reflection, incidence, refraction, dispersion, specular, diffusion, optical,
Prior	Current	Next					
12-Jan	A	17					
19-Jan	B	18					
26-Jan	A	19					
2-Feb	B	20					
9-Feb	A	21					

			<p>Year 6 – reflection, shadows and how light travels</p> <p>Understand how we see objects. Understand reflection, refraction & dispersion. Understand the difference between primary & secondary colours. Also links to P6: Sound</p>	<p>Y9: key definitions of waves; core practical Y10: ray diagrams; Wave front diagrams (H); Reflection, Sound waves, Uses of waves, Lenses & light, Black body radiation</p> <p>Y12: Travelling & stationary waves; diffraction, superposition, interference</p>	<p>lens, cornea, primary, secondary, wavelength, frequency, amplitude, oscillation/vibration</p> <p>Links to root words- Etymology</p> <ul style="list-style-type: none">“Luminous” from Latin “lumen” meaning light and now a measure of brightness. <p>Tier 2/3 Vocabulary</p> <p>Referenced on PowerPoint slides, quick quizzes</p> <p>History</p> <ul style="list-style-type: none">Monet – able to see UV light after his lenses were removed, hence change in colours of his painting towards the blue endHerschel – discovery of infrared “radiation” <p>Links to culture</p> <ul style="list-style-type: none">Harry Potter spell “lumos” to give light.Note “Illuminati” (popular conspiracy theories, from Dan Brown novels) meaning “the enlightened ones”.Rainbows and pots of gold! Neither are real ... <p>Career ideas-</p> <ul style="list-style-type: none">Laser scientist; Astronomer; radiographer; optician; Supersonic aircraft designer; Ship designer; renewable energy (PV and marine) engineer; radar technicians (civil and military). <p>Equality Diversity and Inclusion (EDI) links?</p> <p>EDI links:</p> <ul style="list-style-type: none">Scientists form different nationalitiesLight Physics- Isaac Newton ‘The clockwork god’ saw his demonstration of the regularity of the universe as having great religious significance. Newton’s ideas were initially seen as very supportive of religion; yet within 50 years, they were being seen in a very different light. <p><i>LGBT+ History month</i> <i>Holocaust memorial day</i></p> <p><i>World Hijab Day</i> <i>Children's mental health week.</i> <i>Safer internet day</i> <i>Chinese New Year</i></p>
			<ul style="list-style-type: none">GW: state how we see objects, state what reflection, refraction and dispersion areBI: Describe how we see different objects, describe reflection, refraction & dispersion. Describe how shadows form <p>EW: explain reflection, refraction & dispersion. Explain what coloured filters do. Explain water waves using terms wavelength, frequency & amplitude</p> <p>Assessment</p> <ul style="list-style-type: none">Students should be able to explain findings using their Science knowledgeEnd of unit quizLong answer extension question at the end of the unit <p>Application task</p> <p>Shadows and refraction</p> <p>Common misconceptions</p> <ul style="list-style-type: none">Only shiny objects like mirrors reflect lightColours are inherent properties of objects		

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			<ul style="list-style-type: none">Shadows are a reflection of the object causing them						
Half-Term 6 weeks (6 lessons) (28 Days)									
23-Feb	B	22		<ul style="list-style-type: none">(EDI) links? Women's history month Ramadhan begins World Down Syndrome day Transgender day of visibility					
2-Mar	A	23							
9-Mar	B	24							
16-Mar	A	25							
23-Mar	B	ST2							
30-Mar (finish Wednesday 1 st April)	A	ST2							
Easter Holiday 5 weeks (5 lessons) (24 Days)									
20-Apr	B	28	<u>Overview of Unit/No. lessons</u> Sound/9 lessons <ul style="list-style-type: none">Lesson Sequence of Content: Sound Lesson 1- Introduction to Sound Lesson 2- Describing sound waves Lesson 3- Measuring the speed of sound Lesson 4- How sound travels through materials Lesson 5- Reflection and absorption of sound Lesson 6- The Ear Lesson 7- Uses of sound waves Lesson 8- Quick quiz Lesson 9- Long answer	Foundational Concepts: Particles Outcomes <ul style="list-style-type: none">Know that sound waves are longitudinal and are caused by vibrations.Be able to draw diagrams showing compression and refractionKnow the key terms pitch, amplitude, frequencyBe able to label a wave using the key terms above and also include wavelength.Be able to describe how sound travels at different speeds in different mediumsBe able to describe an experiment to calculate the speed of sound using echoesKnow how sound can reflect and absorbBe able to calculate the speed of sound using an equationKnow some uses of sound. E.g. (Ultrasound, echo location)Know some parts of the earKnow the auditory range of humans and animalsDescribe the function of different parts of the earDescribe how the ear allows us to hear sound. Skills used/learned <ul style="list-style-type: none">Analysis skillsInterpretation skillsEvaluation skillsPractical skillsMathematical skills <ul style="list-style-type: none">KW: particles, vibrate, longitudinal, wavelength, frequency, amplitude, pitch, echo, echolocation,					
27-Apr	A	29							
4-May (Bank holiday Mon)	B	30							
11-May	A	31							
18-May									
	B	32							
			<table><tr><th>Prior</th><th>Current</th><th>Next</th></tr><tr><td>Observation of slinkies</td><td>Understand how sound travels. Understand how we hear. Link to P5: waves.</td><td>Y10: Sound waves Y12: Travelling & stationary waves; diffraction, superposition, interference</td></tr></table> <ul style="list-style-type: none">GW: state how sound travelsBI: Describe how sound travels and describe parts of a wave	Prior	Current	Next	Observation of slinkies	Understand how sound travels. Understand how we hear. Link to P5: waves.	Y10: Sound waves Y12: Travelling & stationary waves; diffraction, superposition, interference
Prior	Current	Next							
Observation of slinkies	Understand how sound travels. Understand how we hear. Link to P5: waves.	Y10: Sound waves Y12: Travelling & stationary waves; diffraction, superposition, interference							

			<ul style="list-style-type: none"> EW: explain how sound travels and how we hear. Explain how sound waves can be used. <p>Assessment</p> <ul style="list-style-type: none"> Students should be able to explain findings using their Science knowledge End of unit quiz Long answer extension question at the end of the unit <p>Oscilloscope and ear</p> <p>Common misconceptions</p> <ul style="list-style-type: none"> Sound can only travel in one direction Sound can't travel through solids and liquids Sound and light travel at the same speed Sounds can travel through empty space (a vacuum) 	<p>ultrasound, pinna, ear canal, ear drum, anvil, stirrup, hammer, cochlea, semi-circular canal, auditory nerve</p> <p>Links to root words- Etymology</p> <ul style="list-style-type: none"> "Sound" – from Latin "Sonus" (note speaker technology by "sonos") <p>Tier 2/3 Vocabulary Referenced on PowerPoint slides, quick quizzes</p> <p>History</p> <ul style="list-style-type: none"> Beethoven unable to hear properly from about age 26, so used sound waves transmitted through a solid to feel vibrations. Chuck Yeager first to break the "Sound Barrier"; Felix Baumgartner first to freefall through sound barrier. <p>Links to culture</p> <ul style="list-style-type: none"> Sonar: "Sound navigation and Ranging" Natural Sonar in echolocation – e.g. bats and dolphins. Note, possible in humans – video in "Teaching videos" directory Problems with using a sound to time the start of a race – link to speed of sound. Link to waves being created by all musical instruments; need to "tune" those waves in e.g. violin "Knocking" in central heating being sound waves in solid pipes <ul style="list-style-type: none"> Career ideas- Musician; Sound engineer; musical instrument manufacturer; ultrasound technician; ENT doctor; plumber <p>• Equality Diversity and Inclusion (EDI) links?</p> <p>EDI links:</p> <ul style="list-style-type: none"> Scientists from different nationalities Frequency of hearing changes with age <p><i>Good Friday</i> <i>Easter Sunday</i> <i>Autism and stress awareness month.</i> <i>World Malaria Day</i> <i>Lesbian visibility day</i> <i>UK national walking month.</i> <i>Deaf awareness week</i></p>
Half-Term			7 weeks (7 lessons) (35 Days)	
1-Jun	A	33	<u>Overview of Unit/No. lessons</u>	Foundational concepts: Particles & Energy
9-Jun	B	34		

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16-Jun	A	35	<div>Calculations in Physics/ 7 lessons</div> <ul style="list-style-type: none">Lesson Sequence of Content: <div>Calculations in Physics</div> <div>Lesson 1- Moments</div> <div>Lesson 2- Work Done</div> <div>Lesson 3- Pressure in a solid calculations</div> <div>Lesson 4- Pressure in a gas theory</div> <div>Lesson 5- Pressure in a liquid theory</div> <div>Lesson 6- Power</div> <div>Lesson 7- Energy costs in the home</div> <table><thead><tr><th>Prior</th><th>Current</th><th>Next</th></tr></thead><tbody><tr><td>Year 7 – Forces</td><td>Calculations</td><td>Year 9 – power equation. Energy stores with qualitative transfers</td></tr><tr><td>Year 7– Energy transfers</td><td>Fuel Costs</td><td>Year 10 –Work done. Energy stores with quantitative transfers</td></tr><tr><td></td><td>Pressure in fluids</td><td>Year 11: Moments, levers, gears. Pressure in fluids. Pressure in a gas linked to kinetic theory. Work to increase pressure/temperature of a gas (H)</td></tr><tr><td></td><td>Work done and energy changes</td><td>Y12/13 – Turning points in physics</td></tr><tr><td></td><td>Moments</td><td></td></tr></tbody></table> <div><ul style="list-style-type: none">GW: Identify units for calculations.BI: Substitute in values to perform calculations. Convert units.EW: Apply and rearrange the appropriate equations. Apply calculations to real-world contexts.<div>Assessment<ul style="list-style-type: none">Students should be able to link calculations to prior learningExam questionsPupils should be able to discuss and link these ideas to everyday situations.</div></div>	Prior	Current	Next	Year 7 – Forces	Calculations	Year 9 – power equation. Energy stores with qualitative transfers	Year 7– Energy transfers	Fuel Costs	Year 10 –Work done. Energy stores with quantitative transfers		Pressure in fluids	Year 11: Moments, levers, gears. Pressure in fluids. Pressure in a gas linked to kinetic theory. Work to increase pressure/temperature of a gas (H)		Work done and energy changes	Y12/13 – Turning points in physics		Moments		<div>Outcomes</div> <ul style="list-style-type: none">State and use the law of moments by simple calculationDescribe how turning forces can be increasedUnderstand the application of momentsRecognise situations where work is doneDescribe the relationship work done= force x distanceApply the work done equation to different situationsIdentify the factors that determine the size of pressure on a solidCalculate the size of pressure exertedDescribe how pressure in a liquid alters with depth and how it increases in relation to particles and gravityExplain how the pressure in a gas varies with height above the EarthDescribe what is meant by ‘rate of energy transfer’Recall and use the correct units for rate of energy transferCalculate quantities of energy transferred when change happensAnalysis typical fuel billsExplain and use the units used on a fuel billExplain how the cost of energy used can be calculated <div>Skills used/learned</div> <ul style="list-style-type: none">Analysis skillsMathematical skillsProblem solving skills <ul style="list-style-type: none">KW: Moments, power, pressure, work done, force, lever, pivot, newton, energy transfer, rate, fuel, conservation, effort, load, kilowatt-hour, pascal. <div>Links to root words (etymology):</div> <ul style="list-style-type: none">Dissipated – from the latin – dissipat – ‘scattered’Lever- Old French levier (12c.) "a lifter, a lever, crowbar," agent noun from lever "to raise" (10c.), from Latin levare "to raise,"Pressure- directly from Latin pressura "action of pressing," from pressus, past participle of premere "to press, hold fast, cover, crowd, compress"Moment- directly from Latin momentum "movement, motion; moving power; alteration, change;" also "short time, instant" <div>History</div> <ul style="list-style-type: none">The concept of moment in physics is derived from the mathematical concept of moments. The principle of moments is derived from Archimedes' discovery of the operating principle of the lever.Pascal- The unit is named after Blaise Pascal, noted for his contributions to hydrodynamics and hydrostatics, and experiments with a barometer. The name pascal was adopted for the SI unit newton per square metre (N/m²)
Prior	Current	Next																				
Year 7 – Forces	Calculations	Year 9 – power equation. Energy stores with qualitative transfers																				
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23-Jun	B	36																				
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7-Jul	B	38																				
14-Jul																						
	A	39																				

				<p>by the 14th General Conference on Weights and Measures in 1971.</p> <ul style="list-style-type: none"> Watt- James Watt who was a Scottish inventor and mechanical engineer, renowned for his improvements in steam engine technology, died on 19 August 1819. A unit of measurement of electrical and mechanical power - the watt - is named in his honour. <p>Links to culture:</p> <ul style="list-style-type: none"> Discuss why it is important to review fuel bills- costs so may change suppliers or source of fuel. (Can get from renewable source) Moments- used for cranes. Simple machines 'levers'-spanner, wheelbarrow. Explore the uses of pressure in everyday life e.g. Camels feet can walk on soft sand, easy to cut vegetables with a sharp knife than a blunt one, ice skates are more suited for the ice than roller blades. Need specialised deep-sea diving capsules to explore great depths of the oceans due to pressure. Expanding crisp packets when flying. Explore uses of energy transfers by food and fuels in everyday life. <p>Career ideas- Line installers and repairers, construction managers, electricians, ski blade designer, bridge engineer, submarine engineer.</p> <ul style="list-style-type: none"> Equality Diversity and Inclusion (EDI) links? <p>EDI links:</p> <ul style="list-style-type: none"> Scientists from different nationalities <p><i>LGBTQ+ pride month.</i> <i>Gypsy, Roma and Traveller history month.</i> <i>world day against child labour</i> <i>autistic pride day</i> <i>World refugee day</i></p>
(Total: 190 Days)				

Overview of Year 8	
Based on your Flight Path	By the end of Year 8, students will have learned
GW:	<ul style="list-style-type: none"> Know some standard circuit symbols and what is meant by an electric current State the definitions of current, potential difference and resistance Know the difference between series and parallel circuits Know what is meant by a magnet and the magnetic elements Know the shape of a magnetic field around a bar magnet Recognise the effects of static charge. Know that light travels in straight lines and the evidence for this. Be able to produce a ray diagram showing how we see objects Know that light can travel through a vacuum and the speed of light Know what is meant by dispersion and the colours in the visible light spectrum

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	<ul style="list-style-type: none"> • Know that sound waves are longitudinal and are caused by vibrations. • Be able to draw diagrams showing compression and refraction • Know the key terms pitch, amplitude, frequency • Be able to label a wave using the key terms above and also include wavelength. • Know how sound can reflect and absorb • Know some uses of sound. E.g. (Ultrasound, echo location) • Know some parts of the ear • Know the auditory range of humans and animals
BI:	<ul style="list-style-type: none"> • Describe what happens to current and voltage in series and parallel circuits • Complete a simple practical investigating a factor that affects the resistance in a circuit • Describe how to measure resistance in a circuit • Describe Earth's magnetic field and the impact it has on our Planet. • Know the relationship between the angle of reflection and angle of incidence • Know the difference between specular and diffuse reflection • Know what is meant by refraction and draw a diagram to show it • Be able to draw ray diagrams • Know that sound waves are longitudinal and are caused by vibrations. • Be able to draw diagrams showing compression and refraction • Be able to describe how sound travels at different speeds in different mediums • Describe the function of different parts of the ear • Describe how the ear allows us to hear sound.
EW:	<ul style="list-style-type: none"> • Be able to apply the equation linking voltage, current and resistance • Understand what is meant by an electromagnet and how they are used • Describe the magnetic effect of a current and how this is applied to D.C. motors. • Compare the structure of the eye to cameras • Be able to explain what colour filters do to light • Be able to explain the difference between primary and secondary colours • Know that waves can be reflected, and add or cancel- superposition • Know that sound waves are longitudinal and are caused by vibrations. • Be able to draw diagrams showing compression and refraction • Be able to describe an experiment to calculate the speed of sound using echoes • Be able to calculate the speed of sound using an equation

Prompt Questions

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Please revisit the prompts from last year:

- What are the Key concepts for this unit?

- How will it link to wider disciplinary knowledge/cultural capital: history, culture, authentic artefacts, music, art, literature?
- How does it build on prior knowledge and link to other units, concepts, years, GCSE?
- What is it intended students will have learned?
- For each Unit? By the end of the Year?
 - GW: ; BI: ; EW
- Is it worth summarising in a knowledge organiser?
- **Assessment: how do you know they have learned the foundational concepts, curriculum and wider disciplinary knowledge? Does assessment look like GCSE light? Should it?**
- Skills used/learned
- Tier 2/3 vocabulary ((Etymology e.g. of Greek/Latin)
- How will you assess students understanding?
- How will written feedback be given?
- How can lessons be adapted?