

Exam Board:	AQA
Subject:	Separate Science - Physics
Paper:	Physics Paper 2 (March)
Marks available:	100
Length of paper:	1 hour 45 minutes
Topics:	Forces, Waves, Space, Magnetism and Electromagnetism

Exam Information, guidance and hints

Command words:

- Complete - Fill in gaps/add labels, finish diagrams or graphs
- Give - Recall a simple fact
- Draw - Draw a symbol, diagram or graph
- Describe - Give details about an event, idea or a process
- Explain - Give reasons for an event, idea or process (use because/so)
- Compare - Identify how things are similar/different
- Suggest - Use your own knowledge in an unfamiliar context
- Calculate - Use numbers in a formula
- Complete - Fill the gaps or add to a diagram
- Determine - Work out mathematically
- Evaluate - Compare the pros and cons then give a judgement

Online Resources

- [Cognito past papers](#)

Hints/tips: You need to be able to use the following calculations

- Speed = distance / time
- Acceleration = change in velocity / time
- Weight = mass x gravitational field strength
- Pressure = weight / area
- Period = 1 / frequency
- Force = spring constant x extension
- Force = mass x acceleration
- Work done = force x distance moved
- Moment = force x perpendicular distance
- Wave speed = frequency x wavelength
- $V^2 - U^2 = 2 \times a \times s$
- How to calculate a mean
- How to calculate % change
- Higher only
 - Pressure = height x density x gravitational field strength
 - Calculate uncertainty

Foundation Example Papers and Markschemes

Higher Example Papers and Markschemes

2018 F Paper	Annotated P2	2018 MS	2018 H paper	Annotated P2	2018 MS
2019 F Paper	Annotated P2	2019 MS	2019 H Paper	Annotated P2	2019 MS
2020 F Paper	Annotated P2	2020 MS	2020 H Paper	Annotated P2	2020 MS

PLC Combined Science: Physics Paper 2 - Mock 2

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Forces	Describe contact and non-contact forces including examples.	R853	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.01			
Forces	Explain how and why objects accelerate as they fall.	R893 R760	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.07			
Forces	Explain why objects reach terminal velocity	R112	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.06			
Forces	Calculate resultant forces through addition and subtraction	R893	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.05			
Forces	Describe the changes in motion of objects based on the forces applied to them	R744	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.02 https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.07			
Forces	HT: Use free body diagrams to calculate force	R589	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.05			
Forces	HT: Use vector diagrams to resolve forces into two components	R589	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.05			
Forces	HT: Use vector diagrams to find the resultant force	R589	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.05			
Forces	Use Newton's first law to describe the motion of objects with different resultant forces (e.g. what happens to an object if the resultant force is 100N left or 0N?)	R744	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.07			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Forces	HT: Use Newton's first law to define inertia	R597	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.07			
Forces	Describe how to investigate force and acceleration using a trolley and light gates	R149	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_10.07			
Forces	Calculate force using $F = m \times a$	R138	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.07			
Forces	Identify scalar and vector quantities	R197	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.02			
Forces	Calculate distance using speed = distance / time	R374	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.01			
Forces	Describe changes in motion/speed using a distance time graph	R908	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.04			
Forces	Recall average speeds for walking, running, cycling and driving	R374	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.01			
Forces	Recall the speed of sound	R374	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.01			
Forces	Define velocity and compare it to speed.	R639	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.01			
Forces	Calculate velocity using $v = s \times t$	R639	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.01			
Forces	Calculate velocity using the equation for uniform acceleration ($v^2 - u^2 = 2as$)	R799	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.02			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Forces	HT:Explain how an object can have a changing velocity when its speed is constant	R639	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.02			
Forces	Calculate acceleration using $a = (v-u) / t$	R760	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.02			
Forces	Identify forces in different scenarios (e.g weight, tension, friction, air resistance)	R853	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_2.01			
Forces	Use Newton's third law to describe force pairs (action and reaction forces)	R519	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.08			
Forces	Calculate weight using weight = mass x gravitational field strength	R590	https://www.youtube.com/watch?v=W2aBVbcHr_k&pp=ygUOI2V4cGxhaW5jZW50cmU%3D			
Forces	Describe how to measure mass and weight (not the same way!).	R590	https://www.youtube.com/watch?v=W2aBVbcHr_k&t=6s			
Forces	Describe the relationship between weight, mass and gravitational field strength.	R590	https://www.youtube.com/watch?v=W2aBVbcHr_k			
Forces	Describe the relationship between weight and distance from the Earth	R590	https://www.youtube.com/watch?v=W2aBVbcHr_k			
Forces	Calculate pressure using pressure = force / area	R564	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_2.12			
Forces	State how to draw force lines showing pressure	R129	https://www.youtube.com/watch?v=P08-IYPy1hl&t=19s			
Forces	Calculate work done using work done = force x distance	R307	https://www.youtube.com/watch?v=PY80j_iNT9Y			

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Forces	Describe work done as when a force is applied over a certain distance. Include examples of when work is done or identify work being done in given examples	R307	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_1.11			
Forces	Convert between Nm and joules	R307	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_1.11			
Forces	Describe the effect of doing work against frictional forces	R853	https://www.youtube.com/watch?v=xxK8N23nx9M			
Forces	Calculate final velocity using $v^2 - u^2 = 2 a s$	R799	https://www.youtube.com/watch?v=qpqWzTwnwUk			
Forces	Apply Newton's first law to explain why objects are stationary	R744 R893	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.07			
Forces	Describe different ways that objects can be deformed by applying forces	R337	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_2.08			
Forces	Compare elastic and inelastic deformation	R337	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_2.08			
Forces	Explain the relationship between force and extension/compression in springs and other elastic objects.	R337 R598	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_1.06			
Forces	Explain the relationship between extension/compression in a spring and the energy stored in a spring	R337 R598 R353	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_2.08 https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.06			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Forces	Calculate elastic potential energy from extension and a spring constant	R494	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_1.06 https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_10.06			
Forces	Describe how to measure extension and compression in springs using original length	R353	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.08			
Forces	Describe how to investigate the relationship between force and extension in springs.	R353	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_10.06			
Forces	Calculate force using force = spring constant x extension	R598 R353	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_2.08			
Forces	Explain changes in velocity based on changes in forces (using Newton's first law)	R760	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.02 https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_3.06			
Forces	Calculate moments using Moment = force x perpendicular distance	R563	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.1			
Forces	Explain why the principle of moments is useful when using levers and gears	R324 R473	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.11			
Forces	Describe the principle of moments in equilibrium	R563	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.1			
Forces	Calculate perpendicular distance and force using the principle of moments in equilibrium	R563	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.1			
Forces	Explain the link between depth, density and gravitational field strength with pressure in fluids	R129	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.12 https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_2.13			

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Forces	Calculate the pressure in a fluid using the equation Pressure = depth x density x gravitational field strength	R129	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_2.12			
Forces	Explain the idea of upthrust using ideas about pressure acting on partially submerged objects	R817	https://www.youtube.com/watch?v=SVB6CjbTIAI			
Forces	HIGHER: Explain how to calculate acceleration from an average velocity.	R149	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.02 https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.07			
Forces	Describe how to investigate the relationship between force and acceleration using a trolley, pulley, light gates and masses	R149	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.07			
Forces	Explain the relationship between incline and acceleration when investigating $F=ma$ with a trolley/ramp setup	R149	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.07 https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.07			
Forces	Explain how changing force and mass affect acceleration	R138	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.07			
Forces	HT: Use $F = m \times a$ to calculate inertial mass and explain its significance	R597	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.07			
Forces	Higher: Calculate distance from a velocity time graph	R176	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.05			

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Forces	Interpret velocity time graphs to calculate acceleration and distance HT - also need to do instantaneous acceleration from a curve using a tangent	R760 R176 R663	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.05			
Forces	Describe and calculate stopping distance	R823 R134 R107	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_3.09			
Forces	Explain how different factors affect stopping distance	R823 R134 R107	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.09			
Forces	Explain the relationship between braking force and stopping distance	R823 R134 R107	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.09			
Forces	Explain the dangers caused by large accelerations	R554 R870	https://www.youtube.com/watch?v=XL01aEducWE			
Forces	State the typical reaction time for humans	R134	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.09			
Forces	Describe how to measure reaction time in humans	R134	https://www.youtube.com/results?search_query=free+science+lessons+reaction+time			
Forces	HIGHER: Calculate momentum	R980	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.11			
Forces	Higher: Describe the principle of conservation of momentum	R695	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.11			

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Forces	Higher: Use conservation of momentum to explain and calculate the changes in velocity during collisions.	R695	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_3.11			
Forces	Higher: Use the equation $F = (m \times \Delta v) / \Delta t$ to calculate forces involved in changes of momentum	R554 R870	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_3.12			
Forces	Explain how safety features in cars work using ideas about changes in momentum and force	R554 R870	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_3.12			
Waves	Describe the properties, uses and dangers of electromagnetic waves	R288 R919 R993	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.05			
Waves	Compare different types of electromagnetic wave	R288	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.05			
Waves	Compare the rate of infrared emission of objects with different temperatures	R699	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.18			
Waves	Describe and label the structure of transverse and longitudinal waves	R186	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.01			
Waves	Give examples of transverse and longitudinal waves	R186	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.01			
Waves	Calculate period using period = 1/frequency	R103 R569	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.01			
Waves	Calculate wavelength using wave speed = frequency x wavelength	R103 R569	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.01			

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Waves	Describe how to use bricks, a wall, a tape measure and a stopwatch to calculate the speed of sound in air	R803	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.16			
Waves	Describe what happens to the wavelength of waves when they move from air to water (more dense to less dense)	R992	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.04			
Waves	State the speed of sound in air and the speed of light in a vacuum.	R103 R452	https://www.youtube.com/watch?v=ITe6snlZBp8&t=2s			
Waves	Describe how to measure the speed of sound	R803	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.03			
Waves	Describe examples of where sound is converted between vibrations in solids and vibrations in air (ear drum)	R803	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.16			
Waves	State the range of frequencies for human hearing	R803	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.16			
Waves	Define ultrasound and infrasound	R803	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.17			
Waves	Give examples of ultrasound and infrasound	R762	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.17			
Waves	Describe how to measure the speed of water waves on water	R452	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.08			
Waves	Describe how to investigate the properties of waves in a ripple tank	R625	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_10.08			
Waves	Describe how to investigate the properties of waves on a string	R625	https://www.youtube.com/watch?v=ZXAmiRC0GB0&t=33s			

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Waves	Interpret wave diagrams to identify different frequencies and wavelengths	R103	https://www.youtube.com/watch?v=3qCmEHRFRH8			
Waves	State the unit of dose for radiation and explain its significance	R919	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_4.09			
Waves	HT: Describe how the wavelength of EM waves can change when absorbed, reflected or transmitted.	R992	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_4.04			
Waves	HT: Explain how refraction occurs using wavefront diagrams	R992	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_4.04			
Waves	HIGHER: Explain how radio waves are produced, transmitted and received	R556	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_4.06			
Waves	Identify the equipment used to detect infrared	R699	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_10.18			
Waves	Understand that visible light is the range of wavelengths of the electromagnetic spectrum that humans can see	R488	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.13			
Waves	Explain how we see colour	R488	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.13			
Waves	Explain how colour filters work	R488	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.13			
Waves	Compare diffuse and specular reflection	R241	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-c_4.03			
Waves	Construct and interpret diagrams that show reflection at the boundary	R992	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_4.03			

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Waves	State the law of reflection	R992	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.03			
Waves	Describe an experiment to investigate the law of reflection	R241	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.03			
Waves	Describe an experiment to investigate refraction in glass blocks	R233	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.04			
Waves	Draw, label and identify ray diagrams for reflection and refraction	R198	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.03 https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_4.04			
Waves	Explain how seismic waves can be used to demonstrate the structure of the Earth's core	R382	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.19			
Waves	Explain how P and S waves are used to detect earthquakes	R382	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.19			
Waves	Identify lenses from their shapes and from lens diagrams	R724	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.11			
Waves	Draw ray diagram for converging and diverging lenses	R198	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.12			
Waves	Calculate magnification from ray diagrams of lenses	R648	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.12			
Waves	Define perfect black bodies	R968	https://www.youtube.com/watch?v=SvVQAg_oA2A			
Waves	Explain the relationship between absorption, emission and temperature in systems	R968 R553 R709	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_4.14			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
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Magnetism and Electromagnetism	Identify magnetic materials	R882	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.01			
Magnetism and Electromagnetism	Describe how to draw magnetic field lines using plotting compasses for both bar magnets and wires	R847	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.01			
Magnetism and Electromagnetism	Draw and describe magnetic fields including how they interact	R847	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.01			
Magnetism and Electromagnetism	Describe how changes in current can change the magnetic field around an electromagnet	R342 R344	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.03			
Magnetism and Electromagnetism	HIGHER: Identify the direction of a force on a wire using the left hand rule	R766 R206	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_6.04 https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_6.05			
Magnetism and Electromagnetism	HIGHER: Calculate the magnetic flux density using the equation $F = B \times I \times L$	R206	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_6.04			
Magnetism and Electromagnetism	HIGHER: Explain how to change the size and direction of an electromagnetic field	R766 R344	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_6.03			
Magnetism and Electromagnetism	HIGHER: Explain how a motor works using the motor effect	R931	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-c_6.04			
Magnetism and Electromagnetism	HIGHER: Explain how the generator effect works	R717	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.06			
Magnetism and Electromagnetism	HIGHER: Describe how changes in the magnetic field can change the current induced in the generator effect	R717	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_6.06			

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Magnetism and Electromagnetism	HIGHER: Explain how the motor effect is used in loudspeakers	R247	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_6.08			
Magnetism and Electromagnetism	HIGHER: Explain how the generator effect is used in microphones	R247	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_6.08			
Space	Name our galaxy	R935	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.02			
Space	Describe how stars are formed, including the forces involved	R540	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.01			
Space	Describe the composition of our solar system	R935	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.02			
Space	Explain how black holes are formed	R540	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.01			
Space	Define red shift and identify it from emission spectra	R718	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.04			
Space	Compare theories and evidence about the origins of the universe	R718 R789	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.04			
Space	Explain how orbiting objects can have a changing velocity when at constant speed.	R872	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.03			
Space	Interpret light spectra and what they tell us about red shift	R718	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.04			
Space	Describe what red shift is and explain its effect on the wavelength of light	R718	https://cognitoedu.org/coursesubtopic/p2-gcse-aqa-h-t_9.04			

Topic	Key information related to topic	Sparx Code	Resources/Information related to topic	How well do you understand this topic? RAG		
				Red	Amber	Green
Space	Explain how stars produce and distribute all elements in the universe	R540	https://cognitoedu.org/coursesubtopic/p2-gcse-aq-a-h-t_9.01			
Scientific Skills	Convert values in standard form between m, km, Mm and Gm	X	https://www.youtube.com/watch?v=1JQAJBtKkOM			
Scientific Skills	Identify proportional and directly proportional relationships from graphs (knowing how they are different)	X	https://www.youtube.com/watch?v=R_Re1g80UmE			
Scientific Skills	Identify variables in experiments	X	https://www.youtube.com/watch?v=nKbUbfadxRU			
Scientific Skills	Calculate a mean	X	https://www.youtube.com/watch?v=nYScfgOdz_A			
Scientific Skills	Describe relationships shown in graphs	X	https://www.youtube.com/watch?v=OzDUYj6nNCA			
Scientific Skills	Calculate % change	X	https://www.youtube.com/watch?v=jAcDJDjQk2g			
Scientific Skills	Write numbers to a specific number of decimal places	X	https://www.youtube.com/watch?v=P7ozJW8LSxw			
Scientific Skills	Write numbers to a specific number of significant figures	X	https://www.youtube.com/watch?v=-X0amVzMKEo			
Scientific Skills	Calculate uncertainty	X	https://www.youtube.com/watch?v=sXeUIGW3nRY			