

GCSE Combined Science

Physics Exam Insights
May/June 2024



Feedback from the Examiner Reports



Welcome

This training is for teachers of the Pearson Edexcel GCSE Combined Science Physics specification and will provide feedback and insights on the June 2024 exam series. The session will focus on the performance on some of the key questions in the series and provide analysis to support. The session will point out information that may help with your planning for the year ahead.

Delegates will:

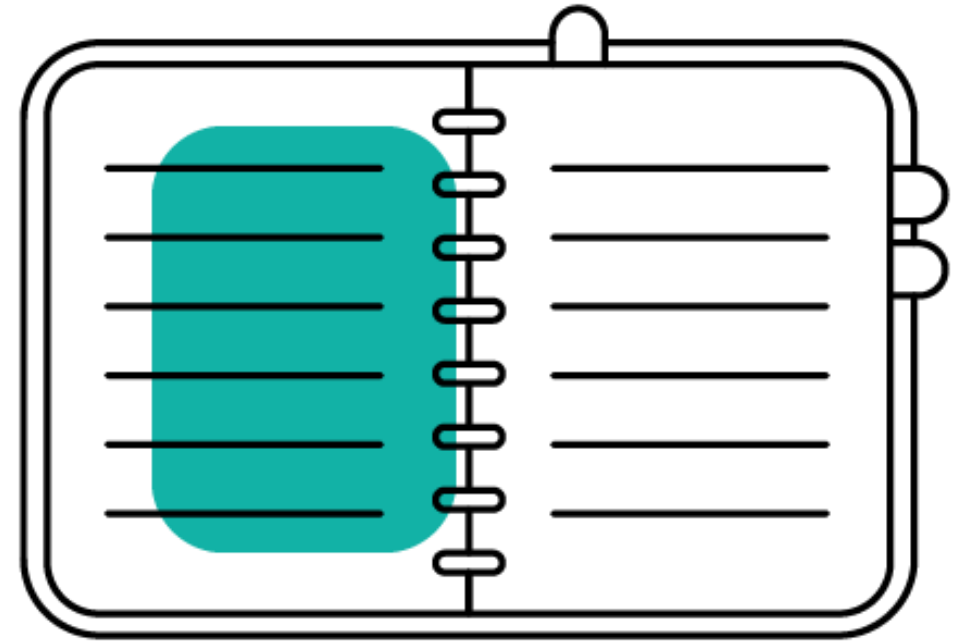
- receive feedback on the performance of candidates in the June 2024 exam series
- consider the variation of candidates' performance on different questions and explore why performance varies
- discuss the Examiner's Reports



Agenda

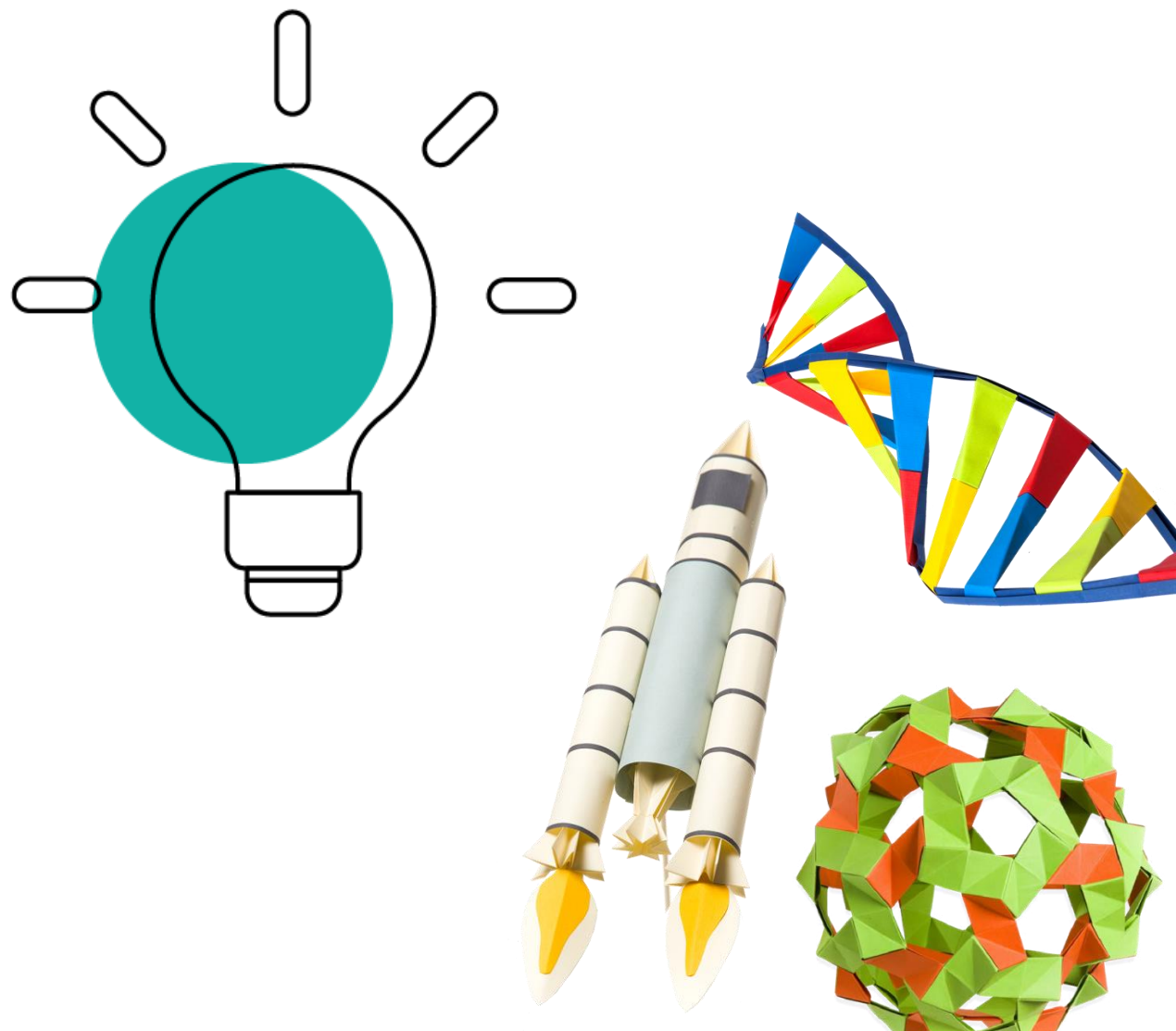
In this session we are going to look at:

- Key themes
- Examples of questions illustrating points from the key themes



Key themes

1. Calculations
2. Practical work
3. Different contexts
4. General comments



Theme 1: Calculations

Feedback from examiners reporting on both foundation and higher papers was that successful candidates were competent in quantitative work.

However, less successful candidates misread or misunderstood the symbols used in equations and needed to understand more fully how to round values to a suitable number of significant figures.

At foundation level, examiners noted that candidates failed to set out calculations in a logical way that could be easily followed and advised that they write down the equation they are using and show each step in their working. They should also make sure that they recognise SI prefixes such as m, k and n and how to handle these in calculations. Some higher-level candidates struggled to handle powers of 10 in their calculations and needed to know when and how to convert units.

Theme 2: Practical work

Feedback from examiners reporting on both foundation and higher papers was that successful candidates had been engaged with practical work at some stage in their course, although less successful candidates had gaps in their procedural knowledge relating to practical work.

Higher level candidates were advised to make the most of opportunities afforded in science laboratories where they become acquainted with practical work from the specification – both core practicals and suggested practicals.

They were also advised to always ask themselves the question: “What is the purpose of this experiment?” – making sure they are clear in their minds about it. Examiners went on to add that after-the-event evaluations are always useful, especially when reflecting on how the experiment might have been improved.

Theme 3: Different contexts

Feedback from examiners reporting on both foundation and higher papers was that successful candidates were well-acquainted with the content of the specification and were willing to apply physics principles to the novel situations presented to them.

Less successful candidates, however, did not focus sufficiently on what the question was asking and found difficulty in applying their knowledge to new situations.

Foundation level candidates were advised to get used to the idea of applying their knowledge to new situations by attempting questions in previous papers.

Theme 4: General comments

Feedback from examiners reporting on both foundation and higher papers advised candidates to make sure that they had a sound knowledge of the fundamental ideas in all the topics.

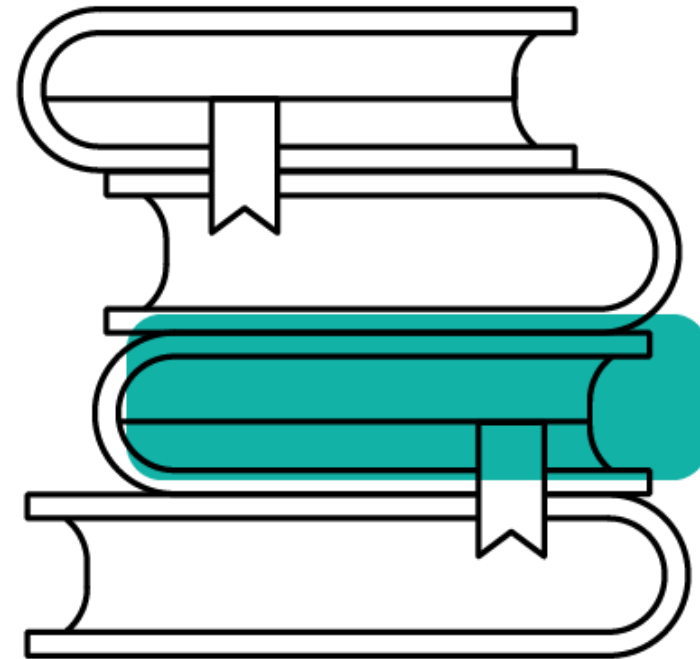
They should use the marks at the side of a question as a guide to the form and content of their answer. In constructing explanations students need to take note of the marks allocated and respond with a corresponding number of points.

Students should, where they can, use diagrams to aid their explanations and use information in diagrams and tables to help with answers. Higher level students were advised to practice writing clear, concise descriptions and explanations.

Examples of questions from the papers

Using examples covering:

1. Calculations
2. Practical work
3. Different contexts
4. General comments
5. Extended Open Response



Calculations examples



Calculation –

Paper 1 CS Physics
F tier Q3 (c)



This shows a good way of working through a question such as this.

First the equation in words followed by the substitution, the rearrangement and the final answer.

3 marks scored

This was a calculation of the frequency of a sound wave from a given equation.

The calculation involved a rearrangement of the equation.

The majority of candidates scored at least 1 mark for this question.

(c) The speed of a sound wave in air is 330 m/s.

The wavelength of this wave is 0.75 m.

Calculate the frequency of this wave.

Use the equation

$$v = f \times \lambda$$

$$s = 330$$
$$\lambda = 0.75$$

wavespeed = frequency \times wavelength

$$330\text{m/s} = ? \times 0.75$$

$$330 \div 0.75 = 440$$

frequency = 440 Hz

(3)

Calculation –

Paper 1 CS Physics
F tier Q6 (b)i



This shows the calculation of the change in velocity, the substitution and the correct final answer.

2 marks scored

Here candidates had to find the time taken for an acceleration.

The equation was given but the correct change in velocity had to be obtained to gain any marks for the final calculation.

Most of the candidates who scored, scored 2 marks.

Use the equation

$$\text{time taken} = \frac{\text{change in velocity}}{\text{acceleration}} \quad (2)$$

$$10 - 6.2 = 3.8 \quad \frac{3.8}{2.5} = 1.52 \text{ s}$$

$$\text{time taken} = 1.52 \text{ s}$$

Calculation –

Paper 1 CS Physics
F tier Q6 (b)i



This response shows the correct change in velocity and the correct substitution into the equation but the evaluation is not correct.

1 mark scored

Here candidates had to find the time taken for an acceleration.

The equation was given but the correct change in velocity had to be obtained to gain any marks for the final calculation.

Most of the candidates who scored, scored 2 marks.

Use the equation

$$\text{time taken} = \frac{\text{change in velocity}}{\text{acceleration}} \quad (2)$$

$$\text{time} = \frac{3.8}{2.5} = 1.28$$

$$\text{time taken} = 1.28 \text{ s}$$

Calculation –

Paper 1 CS Physics

H tier Q3 (a)ii

In this question, the measurements of wavelength are given in nanometres (nm)

3 Ultraviolet (UV) waves from the Sun travel towards the Earth.

Ultraviolet waves can be grouped by wavelength.

The three groups of wavelengths are UVA, UVB and UVC.

Figure 4 shows, for each group,

- the wavelength range
- the effect of the Earth's atmosphere on each type of UV wave.

	UVA	UVB	UVC
wavelength range	400 nm to 315 nm	314 nm to 280 nm	279 nm to 100 nm
% energy absorbed by the Earth's atmosphere	5%	95%	100%

Figure 4

Calculation –

Paper 1 CS Physics
H tier Q3 (a)ii



Most candidates did not know nm was 10^{-9} m so lost the final mark.

This candidate chose the correct equation to use, substituted and rearranged and understood what nanometres were.

(ii) The speed of electromagnetic radiation is 3.00×10^8 m/s.

Calculate the frequency of the shortest wavelength of UVB radiation.

(3)

$$3.00 \times 10^8 = f \times 280 \text{ nm}$$

$$\frac{280}{1.0 \times 10^9} = 2.8 \times 10^{-7}$$

$$\frac{3.00 \times 10^8}{2.8 \times 10^{-7}} = f \times \frac{2.8 \times 10^{-7}}{2.8 \times 10^{-7}}$$

$$1.07 \times 10^{15} = f$$

$$\frac{1.07 \times 10^{15} \text{ Hz}}{\cancel{10^7}} \downarrow$$

frequency = ~~1.07 × 10¹⁵ Hz~~ Hz



The whole science specification needs a good recall and understanding of units:

giga(G), mega(M), kilo(k), centi(c), milli(m), micro(μ) and nano(n).

Calculation –

Paper 2 CS Physics
F tier Q4 (b)i



This is an example of correct rounding. There are only two numbers (figures) in the answer of 1500.

This question gave values of energy and time. Candidates were required to use these values in the equation supplied to calculate power.

They were also required to give their answer to 2 significant figures.

The calculation of power was usually done correctly but expressing the answer to 2 significant figures proved difficult for many candidates.

(b) The cooker supplies 130 000 J of energy in a time of 87 s.

(i) Calculate the power supplied by the cooker.

Use the equation

$$P = \frac{E}{t}$$

Give your answer to 2 significant figures.

(3)

Power = ~~energy~~ work done ÷ time taken

$$130\,000 \div 87 = 1494.25$$

to 2 Significant figures = 1500

power = 1500 W

Calculation –

Paper 2 CS Physics
F tier Q4 (b)i



The calculation of power was correct. However, the candidate has expressed the result to 2 decimal places rather than 2 significant figures. There are many more than 2 numbers (figures) in the final answer of 1494.25



Make sure that you know how to correctly round a value shown on a calculator.

This question gave values of energy and time. Candidates were required to use these values in the equation supplied to calculate power.

They were also required to give their answer to 2 significant figures.

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(b) The cooker supplies 130 000 J of energy in a time of 87 s.

(i) Calculate the power supplied by the cooker.

Use the equation

$$P = \frac{E}{t}$$

Give your answer to 2 significant figures.

(3)

$$\frac{130\,000}{87} = 1494.252874$$

$$2sf = 1494.25$$

$$\text{power} = 1494.25 \text{ W}$$

Calculation –

Paper 2 CS Physics
Higher Q2 (c)



One mark is scored because the grams are not converted to kilograms.



Remember that the standard unit to use for mass is kilograms.

This question included the use of standard form and a conversion from grams to kilograms. About a third of candidates gained both marks and as the equation was given and no rearrangement required it was usually a power of ten error that lost the second mark for evaluation.

This example shows the most frequent error.

$$60.0 \times 2.26 \times 10^6 = 135600000$$

amount of thermal energy = 135600000 J

Calculation –

Paper 2 CS Physics
Higher Q2 (c)



The first mark is scored for correct substitution. This example also shows that grams have been converted to kilograms correctly. The second mark is for the correct evaluation.



Practice using standard form on your calculator.

$$Q = m \times L$$

$$60g = 0.06kg$$

(2)

$$Q = 0.06 \times 2.26 \times 10^6$$
$$= 135600J$$

amount of thermal energy =135600..... J

Practicals examples



Practicals –

Paper 1 CS Physics
H tier Q5 (c)



This example shows how relatively straightforward it was to obtain the full three marks.

Many candidates talked of using a GM tube, but not much else.

There were six possibilities given in the marks scheme for scoring those 3 marks.

(c) A teacher determines the background radiation count rate in a laboratory.

Explain how to determine a value for the background radiation count rate.

get a a geiger counter and hold it up.
measure how many beeps you hear a
~~second~~ minute. Calculate an average.

Practicals –

Paper 1 CS Physics
H tier Q5 (c)



This gained 3 marks for

- GM counter mention
- repeat readings
- take an average

(c) A teacher determines the background radiation count rate in a laboratory.

Explain how to determine a value for the background radiation count rate.

(3)

- GM counter will beep when radiation is present
- ensure repeat experiment to find an average
- Count the number of beeps the GM counter makes
- measure distance of source from counter to find the value for background radiation count rate

Practicals –

Paper 1 CS Physics
H tier Q5 (d)iii



This question (part of the same question above, about a practical demonstration to find the background radiation count) showed low achievement.

Candidates appeared not to be able to apply their procedural knowledge to this item.

(iii) Name a quantity that must be kept constant during the investigation.

(1)

The distance of the beta radiation source from the geiger-muller counter



This was the expected response, earning the mark.

(iii) Name a quantity that must be kept constant during the investigation.

(1)

The distance between the source and the aluminium



This is also a possible constant.

6 possible ways of getting the mark are listed in the mark scheme.

Practicals –

Paper 1 CS Physics
H tier Q5 (d)iii



Unfortunately, this was an all too frequent response.

It is not a control variable.

(iii) Name a quantity that must be kept constant during the investigation.

(1)
~~The source of the beta radiation~~
The amount of beta radiation being emitted from the source.

Practicals –

Paper 2 CS Physics
F tier Q5 (b)ii

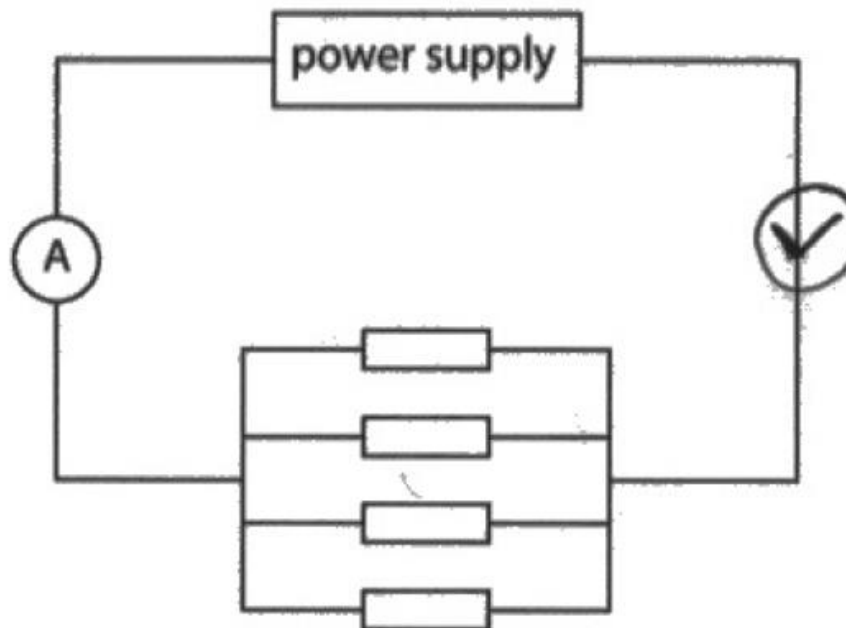


This candidate's answer is incorrect – a voltmeter is not connected in series.

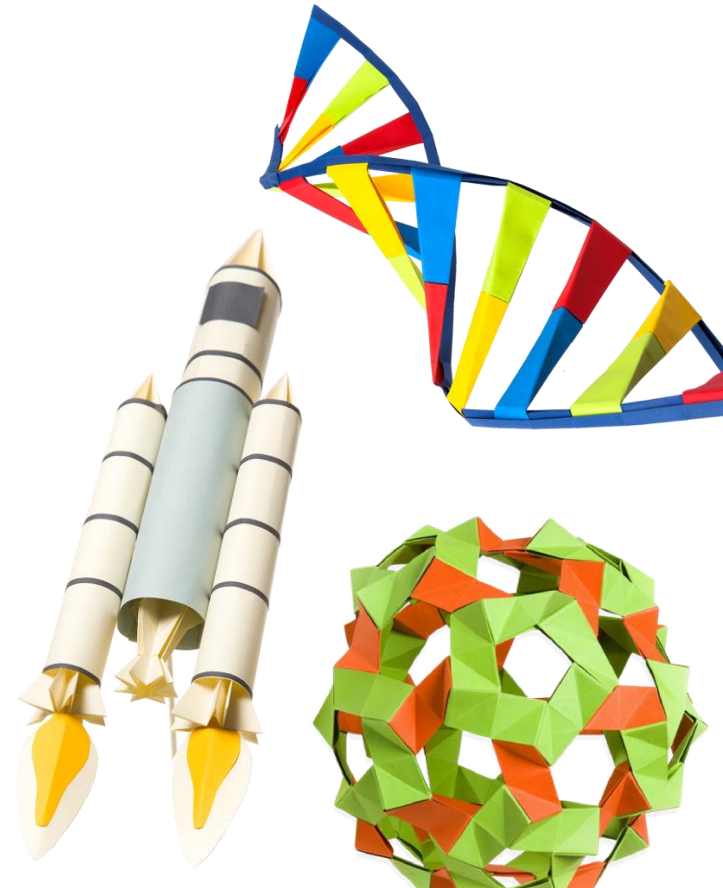
0 marks

Candidates were asked to add to a circuit diagram by drawing a voltmeter connected to measure the voltage (p.d.) across a resistor. As in the previous question, this is commonly tested in this paper, and it is disappointing that so few candidates were able to do this correctly.

Most commonly the voltmeter was drawn in series rather than across the resistor(s).



Different Contexts examples



Different contexts –

Paper 2 CS Physics
F tier Q2 (c)

(ii) Describe how the student could use the paper clips to find out which of the two permanent magnets is the stronger magnet.

(2)

Put the clips ~~on~~ on a table and hold the magnets
in each hand ~~up~~ ~~upside down~~ then hold the magnets
clips ~~which~~ which ever magnet attracts the most clips
clips is the strongest.



A clear description of the method together with the expected result.
This scored both marks.

Different contexts –

Paper 2 CS Physics
F tier Q2 (c)



Although the method was described for 1 mark, it does not include the expected result. “find out how many...” is still part of the method.

A second mark would be scored by saying which magnet would have the most paper clips hanging.

- (ii) Describe how the student could use the paper clips to find out which of the two permanent magnets is the stronger magnet.

(2)

Hold the magnet in the air and find out how ~~max~~ many paperclips can hang together before detatching from eachother.

Different contexts –

Paper 2 CS Physics
F tier Q2 (c)

An alternative method was to compare the distances at which each magnet would attract a paper clip.

- (ii) Describe how the student could use the paper clips to find out which of the two permanent magnets is the stronger magnet.

(2)

The student could place one paperclip further away and slowly bring it close the magnet closer and measure how far it takes for the magnet to join on to the paperclip. The further the paper clip the stronger the magnet.

Screenshot of candidate work



ResultsPlus
Examiner Comments

A clear description of the method together with the expected result ("the further the paper clip the stronger the magnet")

2 marks

Different contexts –

Paper 2 CS Physics
Higher tier Q4 (b)i

(b) Figure 9 shows an electric motor lifting a set of masses.

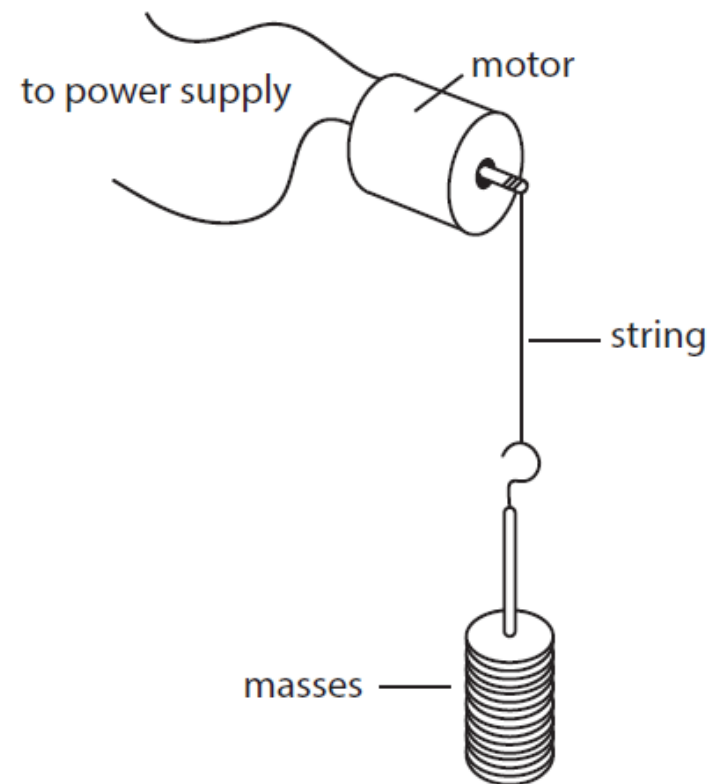


Figure 9

- (i) Describe an experiment, using the apparatus in Figure 9, to determine the gravitational potential energy gained by the masses as they are lifted.

Your description should include any measuring devices to be used.

You may add to the diagram in Figure 9 if it helps your answer.

Different contexts –

Paper 2 CS Physics
H tier Q4 (b)i

The response gives a complete description of the experiment which scores full marks.

Gravitational potential energy = mass \times gravitational field strength \times change in vertical height.

- Measure change in vertical height using a meter rule. Measure distance the ~~whole~~ distance before the masses are lifted and where the masses are after lifted. Then do distance before lifted - distance after lifted to find change.
 - Measure mass by weighing the total number of masses lifted on a balance.
 - The gravitational field strength we know is 9.8 N on earth
- Substitute these 3 numbers into the equation above to find gravitational potential energy. This is measured in Joules.

General comments examples



General comments –

Paper 1 CS Physics

H tier Q3 (b)i

(b) UV radiation of wavelength 365 nm is used to detect forged banknotes.

In a genuine banknote there are marks that **cannot** be seen using visible light. These marks **can** be seen using UV radiation.

Explain why the marks can be seen when the UV radiation shines on the banknote.

Your answer should refer to the energy of electrons in atoms.

You may draw a diagram to help with your answer.

(4)

General comments –

Paper 1 CS Physics

H tier Q3 (b)

For ease of reference here are the mark scheme points:

- 1) UV/energy absorbed by electrons (1)
- 2) electrons change orbit/energy level/shell (1)
- 3) electrons in an 'excited' state (1)
- 4) electrons emit energy/ move to lower energy level/fall down/de-excite (1)
- 5) (energy) emitted as (visible) light/at a different frequency/wavelength (1)
- 6) (process is called) fluorescence/(light emitted is) fluorescent (1).

Please note the mark scheme points must be hit explicitly. Examiners cannot do the work for candidates by inferring or seeing these as implicit. Clearly judgement is required as candidates' language varies.

General comments –

Paper 1 CS Physics
Higher Q3 (b)



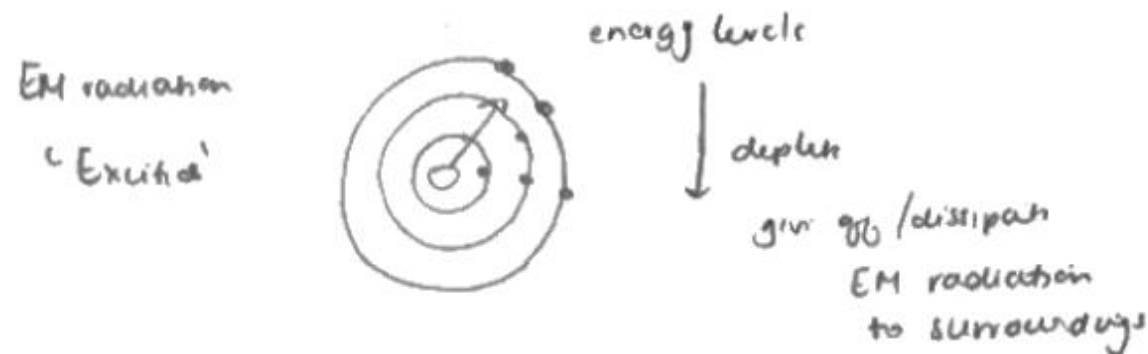
Mark points 2, 3, 4 and 6 are most clearly met, with points 2, 3 and 4 being discernible in the diagram alone.



Wise use of diagrams can really help your answers.

You may draw a diagram to help with your answer.

(4)



Ultraviolet was used
for
fluorescent lamps. However, they were later placed under a coat
be identified with Ultraviolet Radiation. When electrons take in Electromagnetic
Radiation, they 'jump' to the next shell. They are said to be 'excited'.
However, when the energy levels are not enough to stay in that electron shell,
they 'drop' down. Electromagnetic energy dissipates to the surroundings.
UV radiation detects traces of and can identify forged notes and cash.

General comments –

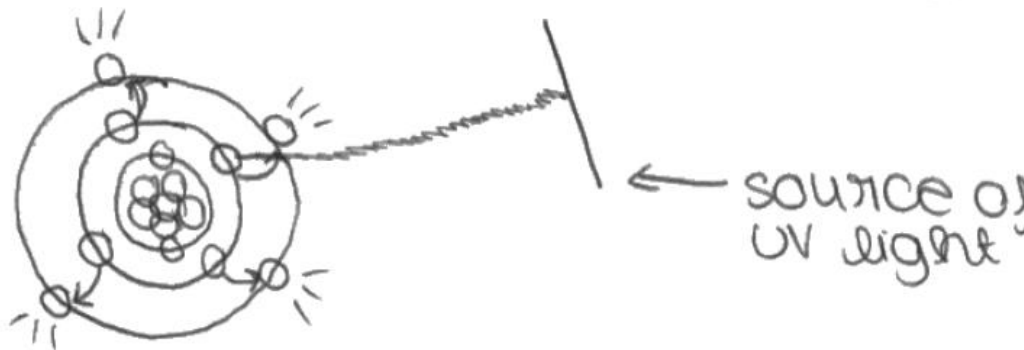
Paper 1 CS Physics
H tier Q3 (b)



This scores mark points 2 and 6

You may draw a diagram to help with your answer.

(4)



- > The electrons in the atoms gain enough energy from the UV rays to 'jump up' onto the outer shells of the atom.
- > By exerting this energy, the atom gives off this energy as visible light, activated by the UV radiation.
- > This happens continuously to the electrons whilst under the UV light.

General comments

Paper 1 CS Physics
H tier Q5 (d)i



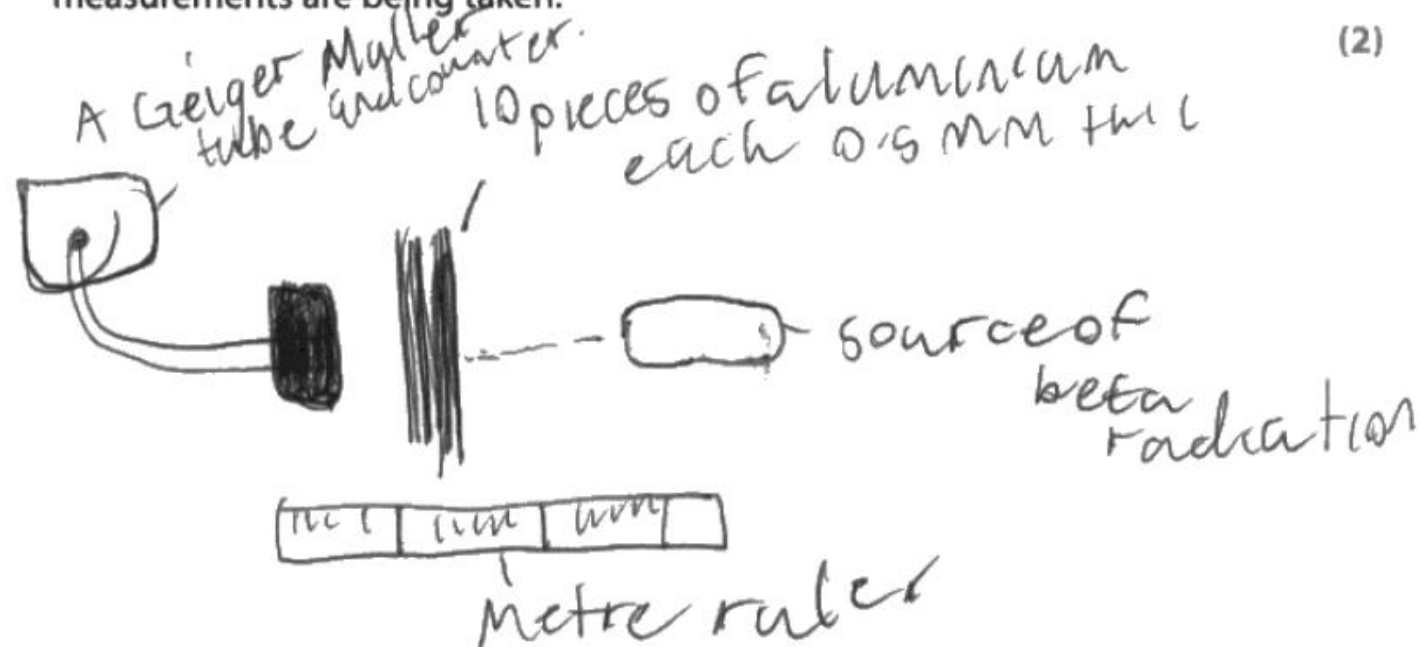
Full marks achieved with the aluminium sheets between the source and the GM tube.

- (d) The teacher now investigates the absorption of beta radiation by different thicknesses of aluminium.

The apparatus available is

- a source of beta radiation
- a Geiger-Müller (G-M) tube and counter
- 10 pieces of aluminium, each 0.5 mm thick
- a metre rule.

- (i) Sketch a labelled diagram showing the positions of the apparatus when the measurements are being taken.



General comments

Paper 1 CS Physics
Higher tier Q5 (d)i



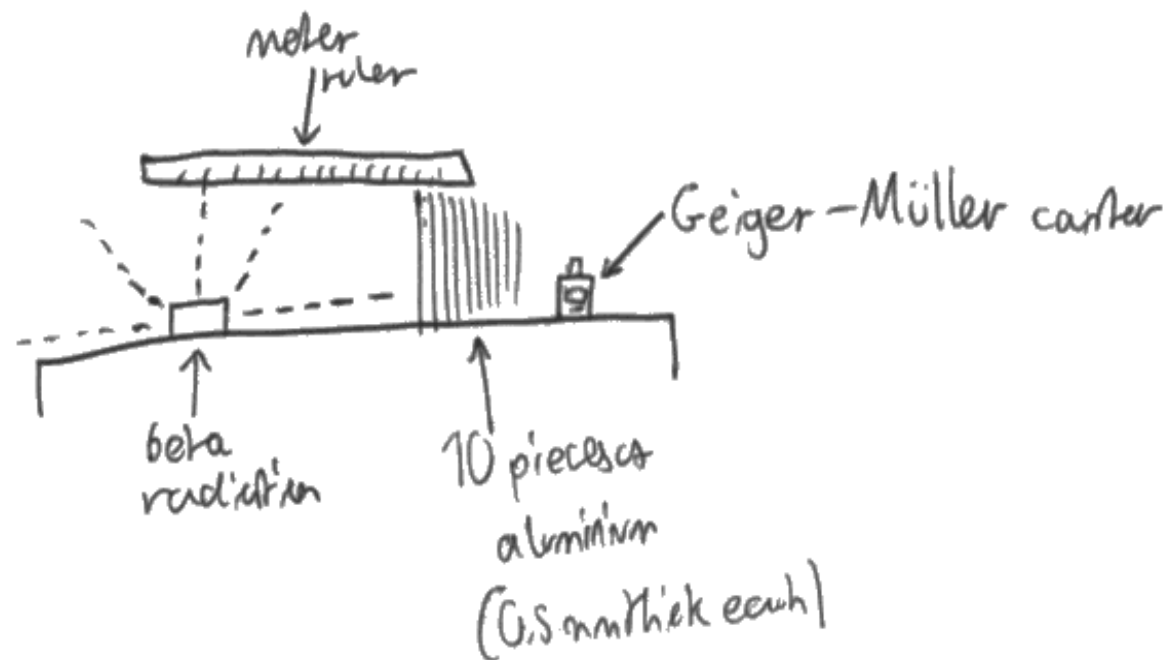
Another well drawn sequence with the correct idea.

The apparatus available is

- a source of beta radiation
- a Geiger-Müller (G-M) tube and counter
- 10 pieces of aluminium, each 0.5 mm thick
- a metre rule.

- (i) Sketch a labelled diagram showing the positions of the apparatus when the measurements are being taken.

(2)



Extended Open Response (EOR) examples



Extended Open Response –

Paper 2 CS Physics

F tier Q6 (d)

This question asked candidates to describe the changes of state shown by a temperature-time graph as ice is heated from -20°C to 100°C . This is a core practical, and candidates were expected to be able to clearly describe where, on the graph, the ice was melting and where the water was turning to a gas.

Although the change from liquid to gas at 100°C was often correctly described, there was often confusion about where the ice was melting and where the temperature of liquid water was rising. In particular, melting was often thought to occur either immediately that the temperature first reached 0°C or over the time when the temperature was rising from 0°C to 100°C .

Extended Open Response –

Paper 2 CS Physics
F tier Q6 (d)



The labels on the graph give a good indication that the candidate understands the changes of state and when they are happening

temperature
in °C

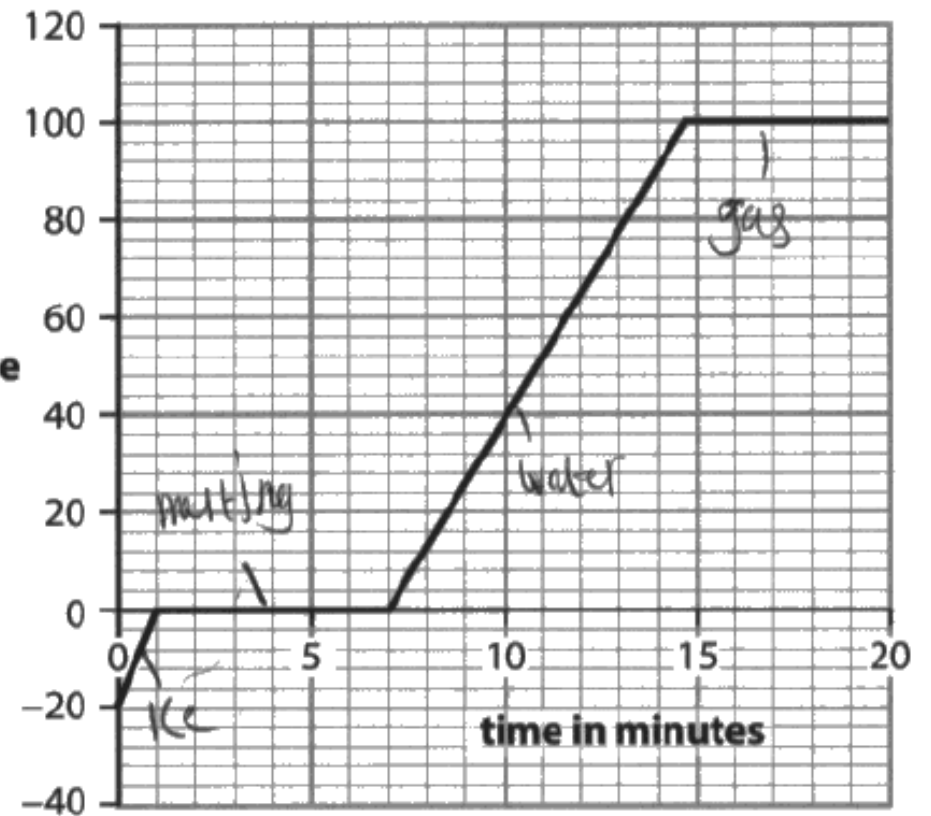


Figure 14

Using information from the graph, describe the changes that take place in the 20 minutes shown on the graph.

Your answer should refer to

- data from the graph
- the state (solid, liquid or gas) of the contents of the beaker.

Extended Open Response –

Paper 2 CS Physics
F tier Q6 (d)



The writing continues and although it becomes a bit confused about when the water evaporates by stating that this occurs between 7 and 15 minutes.

An answer does not need to be totally free of errors in order to demonstrate accurate and relevant physics understanding.

Level 3 response scoring 6 marks.

At -20°C the state of the ice is solid, at 1-7 mins at 0°C the ice starts to melt into water liquid form. Then at 7-15 minutes the water slowly starts to evaporate from liquid to gas as we move from 0°C to 100°C , however at 100°C temperature is no longer the limiting factor so at 15-20 minutes the ice just stays in its gas form as there is no form beyond this that it can take.

Extended Open Response –

Paper 2 CS Physics
F tier Q6 (d)



The first statement about being a solid at the start is correct although the temperature is stated to be 20°C and not -20°C .

The, incorrect, idea that melting starts at 7 mins was often seen. Many candidates did not seem to realise that the melting took place between 1 and 7 mins while the temperature remained at 0°C .

- At 0 Minutes temperature of the substance is 20° which is also a solid
- At 7 minutes the solid starts to melt
- It gradually goes up increasing the temperature
- The water at 15 minutes reaches its boiling point and this is the point where it starts evaporating into gases

Extended Open Response –

Paper 2 CS Physics

H tier Q6 (d)

Describe an investigation to determine the value for the specific heat capacity of water.

Your answer should include details of

- the apparatus needed
- the experimental procedure
- how the value may be calculated from the measurements taken.

You may draw a diagram to help your answer.

Extended Open Response –

Paper 2 CS Physics
H tier Q6



Level 1 – 2 marks.

The first line gives the equation to be used. There is no labelled diagram but lines 2 and 3 give the apparatus as thermometer, beaker and mass balance.

The remaining lines do not contain any credit worthy material



Always draw a diagram. It will help you focus on an accurate description.

- Change in thermal energy = mass \times specific heat capacity \times change in temperature
- Apparatus needed: thermometer, beaker of water, mass balance,
- Independent variable = temperature, mass
- Dependent variable = specific heat capacity
- Control variable = ~~the~~ volume of water

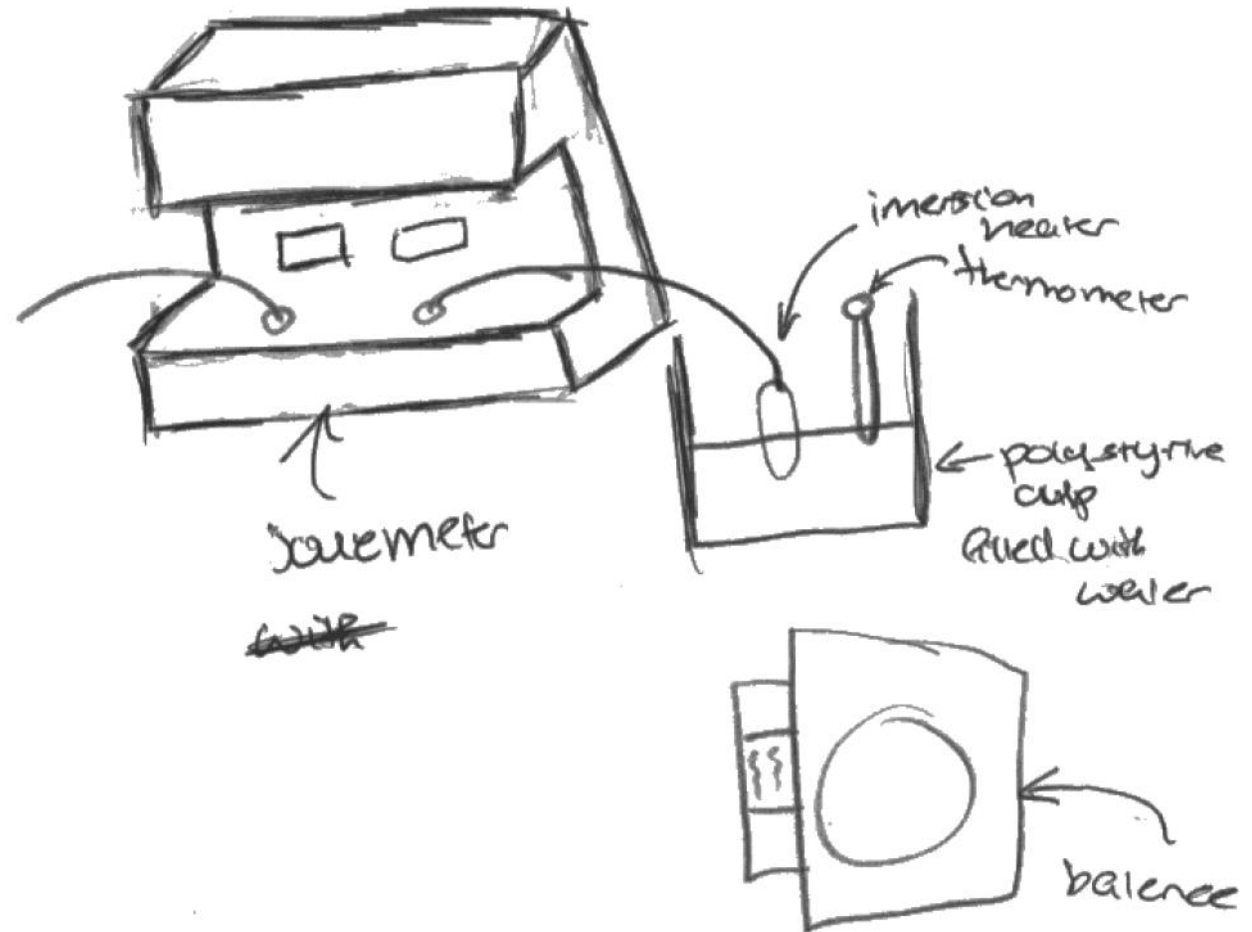
Extended Open Response –

Paper 2 CS Physics
H tier Q6



Level 3 – 6 marks

The labelled diagram shows all the apparatus needed for the experiment.



Extended Open Response –

Paper 2 CS Physics
H tier Q6



The text starts off by giving the equation text.

The mass of the water is measured using a balance.

The initial temperature is measured using a thermometer and a joulemeter measures the thermal energy.

There is a precaution to add a lid and insulation.

After heating the new temperature and thermal readings are taken.

The values are then used in the equation to calculate a value for the specific heat capacity.

$$\text{Specific heat capacity} = \frac{\text{change in thermal energy}}{\text{Mass} \times \text{change in temperature}}$$

you need to measure the mass by ^{putting beaker} ~~measuring the~~ on ^{balance} ~~balance~~
then zero it. then add your water and take the
measurement of the mass. measure the starting temperature
using a thermometer and the change in
thermal energy using a joulemeter. cover water
with a lid and make the cup is insulated to
reduce ~~the~~ heat loss to surroundings.

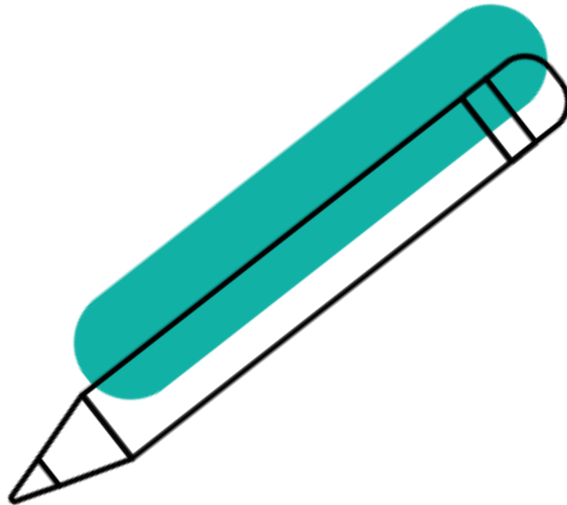
after heating take new temperature ~~of~~ using
thermometer and the new thermal energy
~~int~~ using a joule meter. plug values
into equation as seen at the top to calculate
Specific heat capacity.
you can repeat this 2 times to find an average
Specific ~~latent~~ heat capacity (Total for Question 6 = 12 marks)

Teaching & Learning ideas and discussion



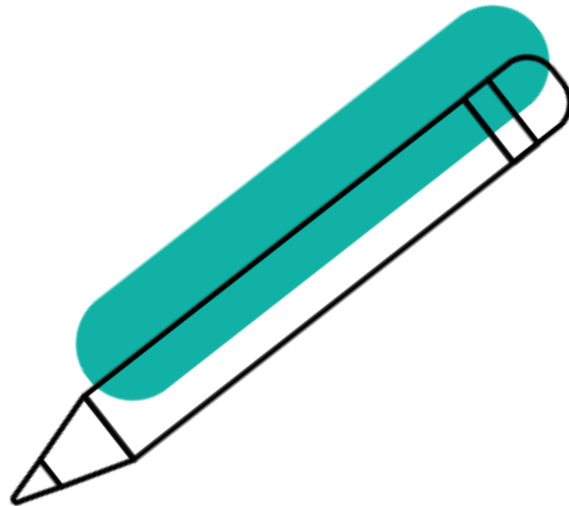
Calculations

- ☐ Rounding values to a suitable number of significant figures
- ☐ Set out calculations in a logical way – show each step in the working
- ☐ Know and recognise SI prefixes such as m, k and n and know how to handle these in calculations
- ☐ Know when and how to convert units



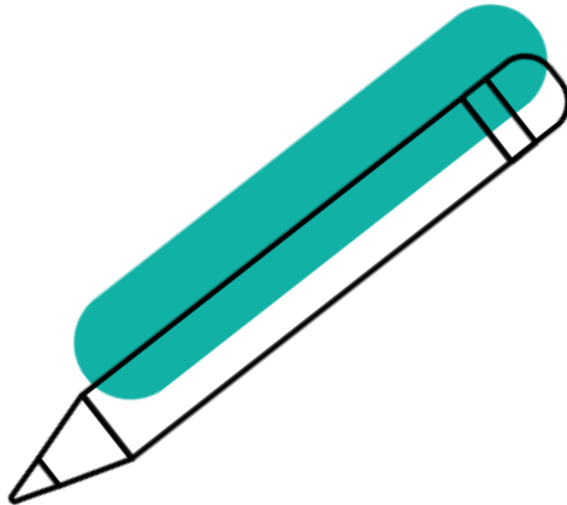
Practical work

- ❑ Address gaps in 'procedural knowledge' relating to practical work
- ❑ Always ask the question 'What is the purpose of this experiment?'
- ❑ Evaluate experiments, reflect on what might be improved



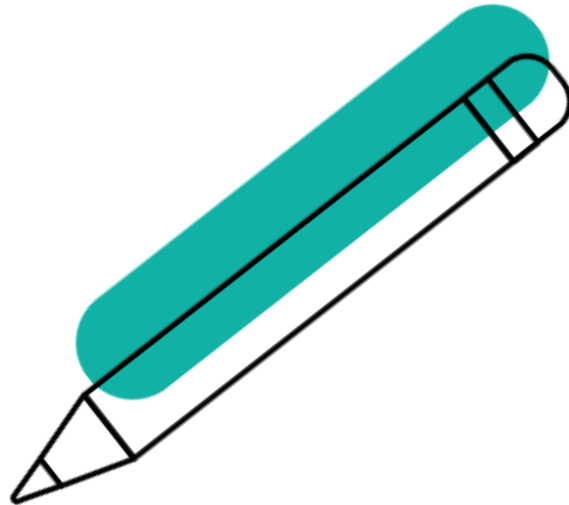
Different contexts

- ❑ Get used to the idea of applying knowledge to new situations... (by attempting questions in previous papers)



General comments

- ☐ Take note of the marks allocated and respond with a corresponding number of points
- ☐ Where you can, use diagrams to aid explanations



Find the reports

You can find the full Examiner's Reports for the 2024 series by following this link:

<https://qualifications.pearson.com/en/qualifications/edexcel-gcses/sciences-2016.html>

(or search 'Edexcel GCSE Science')

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- June 2024 NEW
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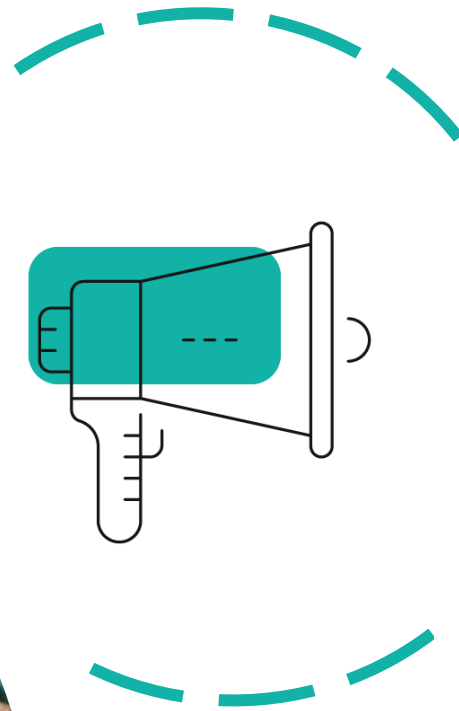
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