

Course Mapping Guide

International Science - Edexcel GCSE

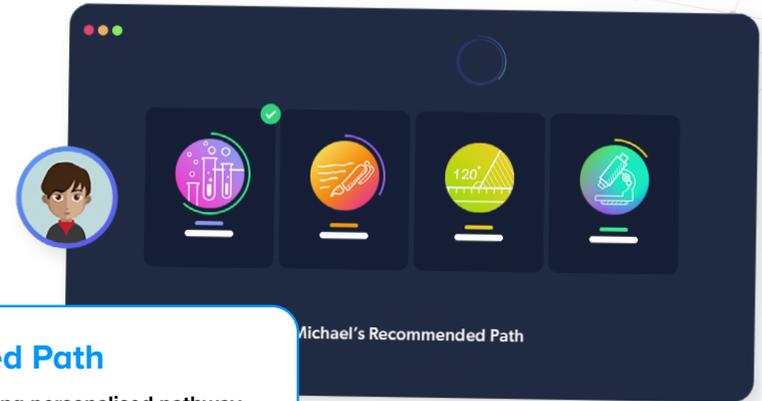
About CENTURY

CENTURY is a learning platform that uses artificial intelligence to personalise learning for every learner. Our team of experienced teachers have created all of our content for English, maths and science from years 2 to 11, as well as functional skills content for post-16 learners. All courses are aligned to the national curriculum and national standards.

- ✓ Learning materials and questions for primary, secondary and post-16 learners
- ✓ Tailored to each learner's skills and knowledge
- ✓ Powered by the world's leading adaptive learning platform
- ✓ Web-based learning for tablets, laptops and desktops



How does CENTURY work?



Diagnostics

Learners begin by completing diagnostics that quickly identify knowledge gaps and misconceptions, and help CENTURY recommend the best learning materials for each individual learner.

Recommended Path

This constantly adapting personalised pathway contains micro-lessons designed to address gaps in knowledge, provide stretch and challenge and promote long-term memory retention.

Leadership Dashboard

Senior and middle leaders get an overview of performance and engagement on a subject, class and learner level.

Achievements

Learners get rewarded with badges and streaks for completing micro-lessons or using CENTURY over a certain period of time to increase their motivation and engagement.

Automated Marking

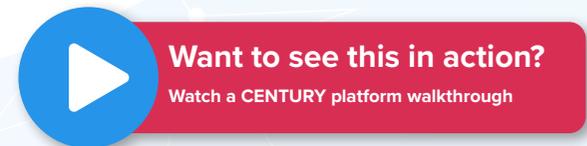
Teachers can view data in real time, to help you quickly identify which learners require additional support or further stretch.

Teacher Dashboard

Use the markbook to monitor individual learners and whole-class trends with a range of dashboards.

Learner Dashboard & Guardian Portal

Learners can identify their strengths and areas for improvement. Parents and guardians can monitor their learner's progress, completed work, and see work set.



Science Courses

GCSE Edexcel

These courses are mapped to the GCSE Edexcel scheme.



Science Biology GCSE (F)



Science Biology GCSE (H)

Study the diagram below.



Identify the structure labelled **B**.

Method

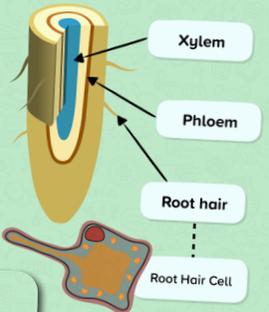
7. The slide is now ready for viewing under a microscope.



You should be able to see something like this.



Minerals are dissolved in water found in the soil.
The water and minerals are absorbed by the root hair cells.
The water and minerals are then transported around the plant in the xylem vessels.



Cardiac Muscle

The coronary arteries carry blood into the heart muscle, making sure it has all the oxygen and glucose it needs for respiration. The coronary veins carry away waste products.

The walls of the heart are made up of cardiac muscle.

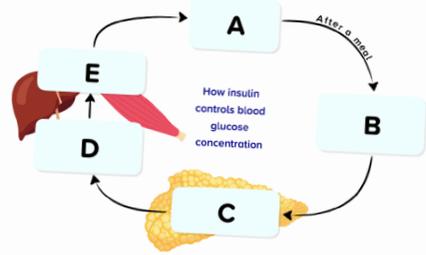
The cardiac muscle enables the heart to pump blood (by the contraction of different heart chambers).

The contractions are automatic; you cannot control this movement.

This is called your pulse.

Question

The flow diagram below summarises the process involved in the control of blood glucose concentration by insulin. The steps in the process have been replaced with letters, A to E.



How insulin controls blood glucose concentration

After a meal

Drag each of the steps to the letter it corresponds to.

Science Courses

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Thomson's Conclusions

- The cathode ray is made up of negatively charged particles.
- These particles are only 1/1840 the mass of a hydrogen atom, so these negative particles must actually be part of the atom.

Atomic particles can be found in all elements. The atom must be positively charged to balance out the negative charge of the electrons.

Question

Below are four particle diagrams. Label each of the particle diagrams with the correct state of matter.

Examples of Giant Covalent Structures

Diamond Graphite Silicon Dioxide
Silica

Question

A 24 carat sample of 18 carat gold was found to contain 18 g of pure gold and 6 g of other metals. Calculate the percentage of gold in the sample. Give your answer to 2 significant figures.

You are given in the question:

Mass of substance (gold) = 18 g
Mass of Mixture (sample) = 24 g

To find the percentage of gold in the sample:

$$\frac{\text{Mass of substance (gold)}}{\text{Mass of Mixture (sample)}} \times 100$$

$\frac{18 \text{ g}}{24 \text{ g}} \times 100 = 75\%$

Answer 75%

Chemical Equation:

$$\text{HNO}_3 (\text{aq}) + \text{KOH} (\text{aq}) \longrightarrow \text{KNO}_3 (\text{aq}) + \text{H}_2\text{O} (\text{l})$$

Use the chemical equation to work out how many moles of hydrochloric acid will be needed.

Moles of HNO₃ needed = _____ moles

Type your answer as a number, without a unit.



Science Chemistry GCSE (F)



Science Chemistry GCSE (H)

Science Courses

GCSE Edexcel

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Science Physics GCSE (F)



Science Physics GCSE (H)

Download course content

Science Courses

GCSE Edexcel

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The Digestive System Organs

Mouth

Liver

Gall Bladder

Large Intestine (Colon and Rectum)

Oesoph

Stom

Pan

Sm (D)

How are alkali metals stored to prevent them reacting?

Stored in the dark.

Stored in at low temperatures.

Stored in water.

Stored in oil.

I DON'T KNOW

SUBMIT ANSWER

Tanzina tested a selection of digestive enzymes for their activity in different pH conditions. Her results are shown below.

Enzyme Activity

pH

A

B

C

Which enzyme A, B or C, is the most likely to be ordinarily found in the mouth?

I DON'T KNOW

SUBMIT ANSWER



Science Combined GCSE – Biology (F)



Science Combined GCSE – Biology (H)



Science Combined GCSE – Chemistry (F)



Science Combined GCSE – Chemistry (H)



Science Combined GCSE – Physics (F)



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