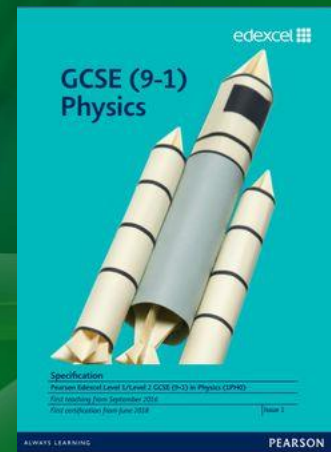
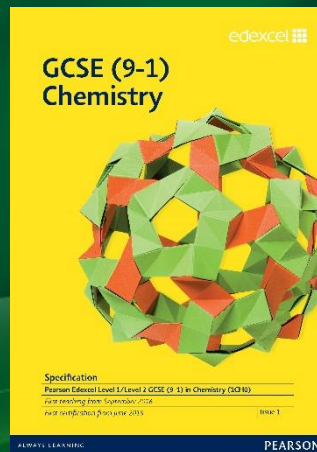
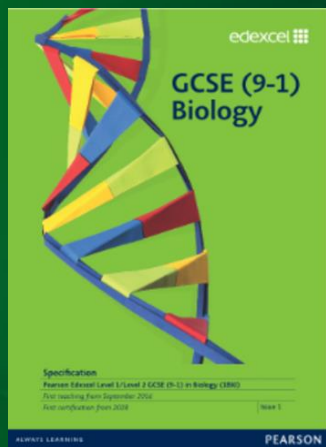




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Science Revision

How can you help your child achieve to the very best of their ability?



Make revision
stuff earlier

Do what works
for you as an
individual

Get focused in
lessons, exams
are not far
away

Why so challenging?



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Assessment Objectives

Students must:		% in GCSE
AO1	Demonstrate knowledge and understanding of: <ul style="list-style-type: none">• scientific ideas• scientific techniques and procedures.	40
AO2	Apply knowledge and understanding of: <ul style="list-style-type: none">• scientific ideas• scientific enquiry, techniques and procedures.	40
AO3	Analyse information and ideas to: <ul style="list-style-type: none">• interpret and evaluate• make judgements and draw conclusions• develop and improve experimental procedures.	20
Total		100%

How is it structured?



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- Practical assessment all completed in the written examinations – relies on core practicals being recalled and **applied**
- All papers must be the same tier for each GCSE

GCSE (9-1) Biology

Biology 1
Paper 1
1hr 45
100 marks

Biology 2
Paper 2
1hr 45
100 marks

GCSE (9-1) Chemistry

Chemistry 1
Paper 1
1hr 45
100 marks

Chemistry 2
Paper 2
1hr 45
100 marks

GCSE (9-1) Physics

Physics 1
Paper 1
1hr 45
100 marks

Physics 2
Paper 2
1hr 45
100 marks

GCSE (9-1) Combined Science

Biology 1
Paper 1
1hr 10
60 marks

Biology 2
Paper 2
1hr 10
60 marks

Chemistry 1
Paper 3
1hr 10
60 marks

Chemistry 2
Paper 4
1hr 10
60 marks

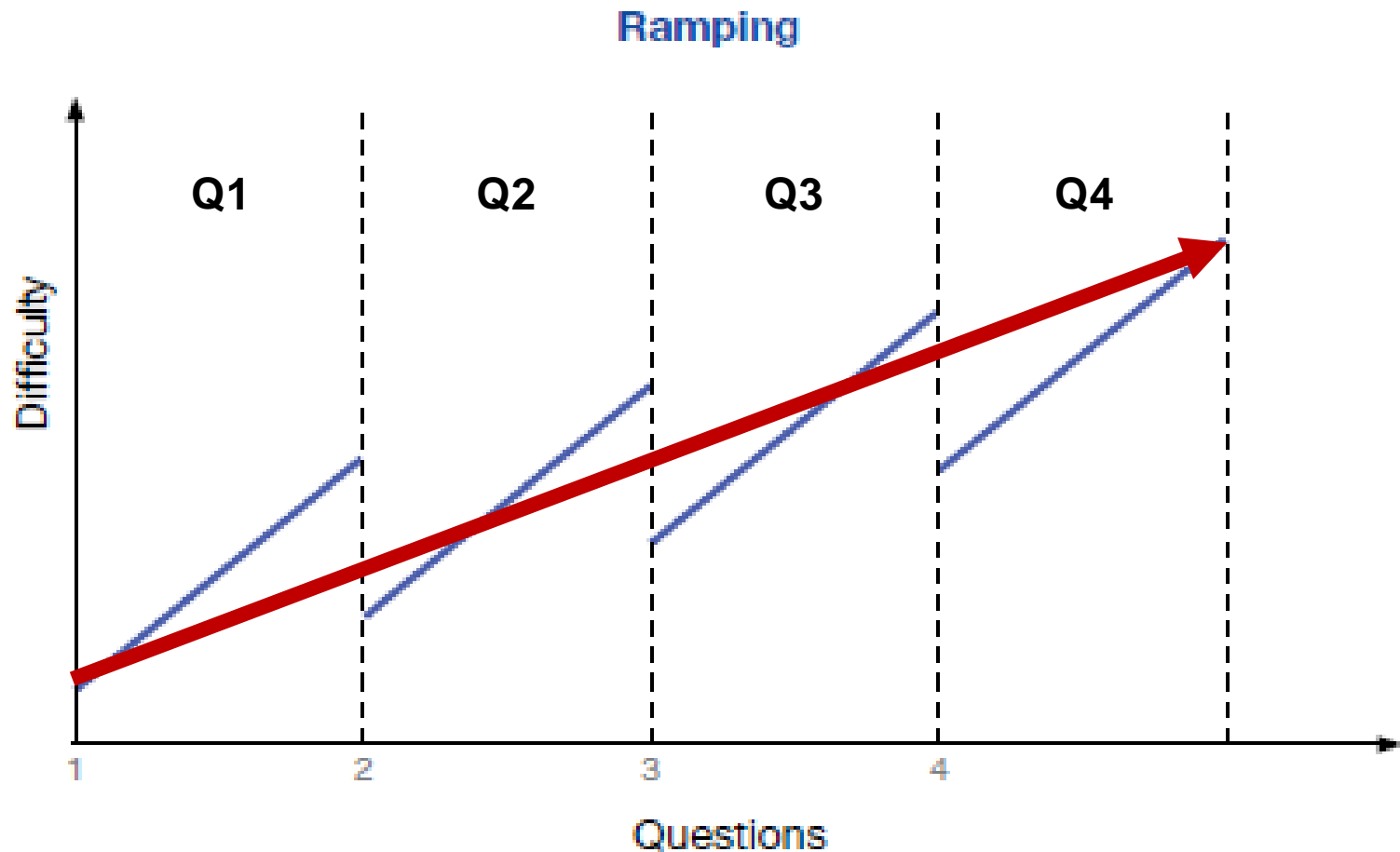
Physics 1
Paper 5
1hr 10
60 marks

Physics 2
Paper 6
1hr 10
60 marks

How is it structured?



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How is it structured?



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- Maths lessons are very important too!

These percentages are:



Biology – 10%



Physics – 30%



Chemistry – 20%



Combined Science – 20%

The Teenage Brain



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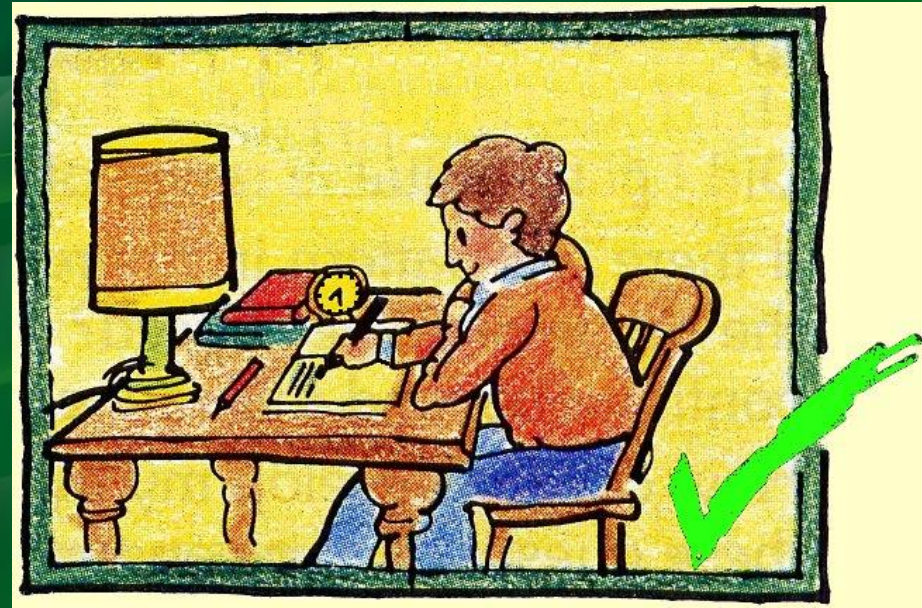
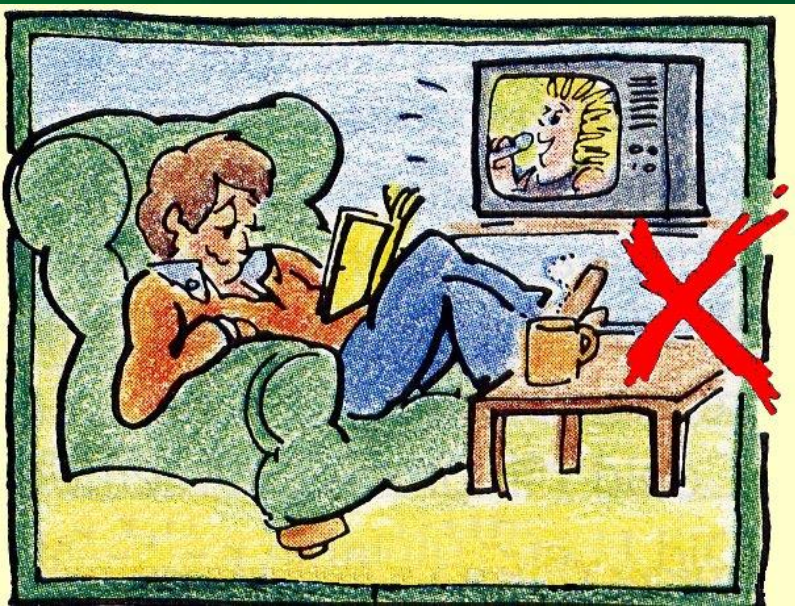


Revision and Learning



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- Require concentration
- A comfortable place to study
- Space for resources
- Food and water

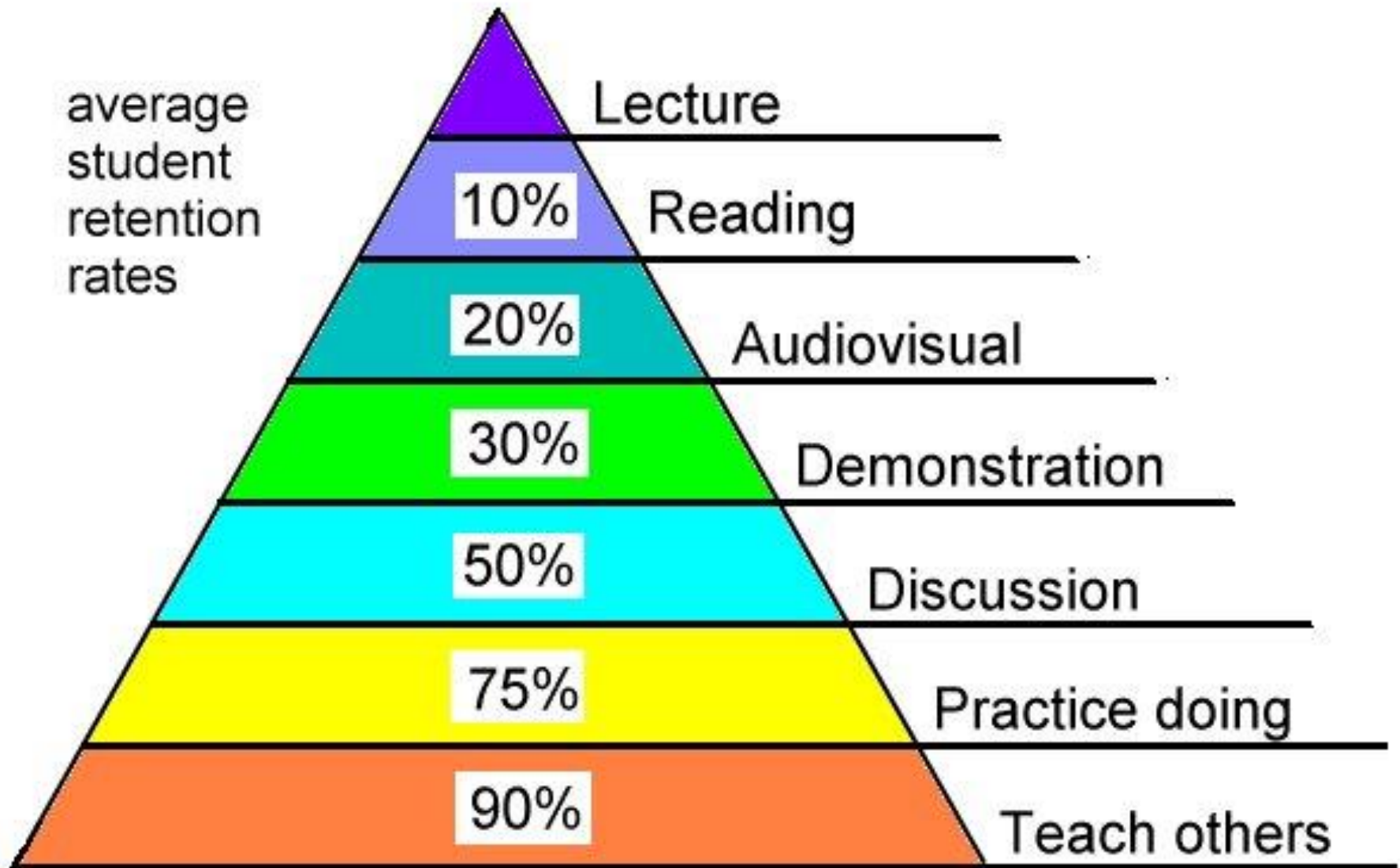


Learning Pyramid



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Source: National Training Laboratories, Bethel, Maine

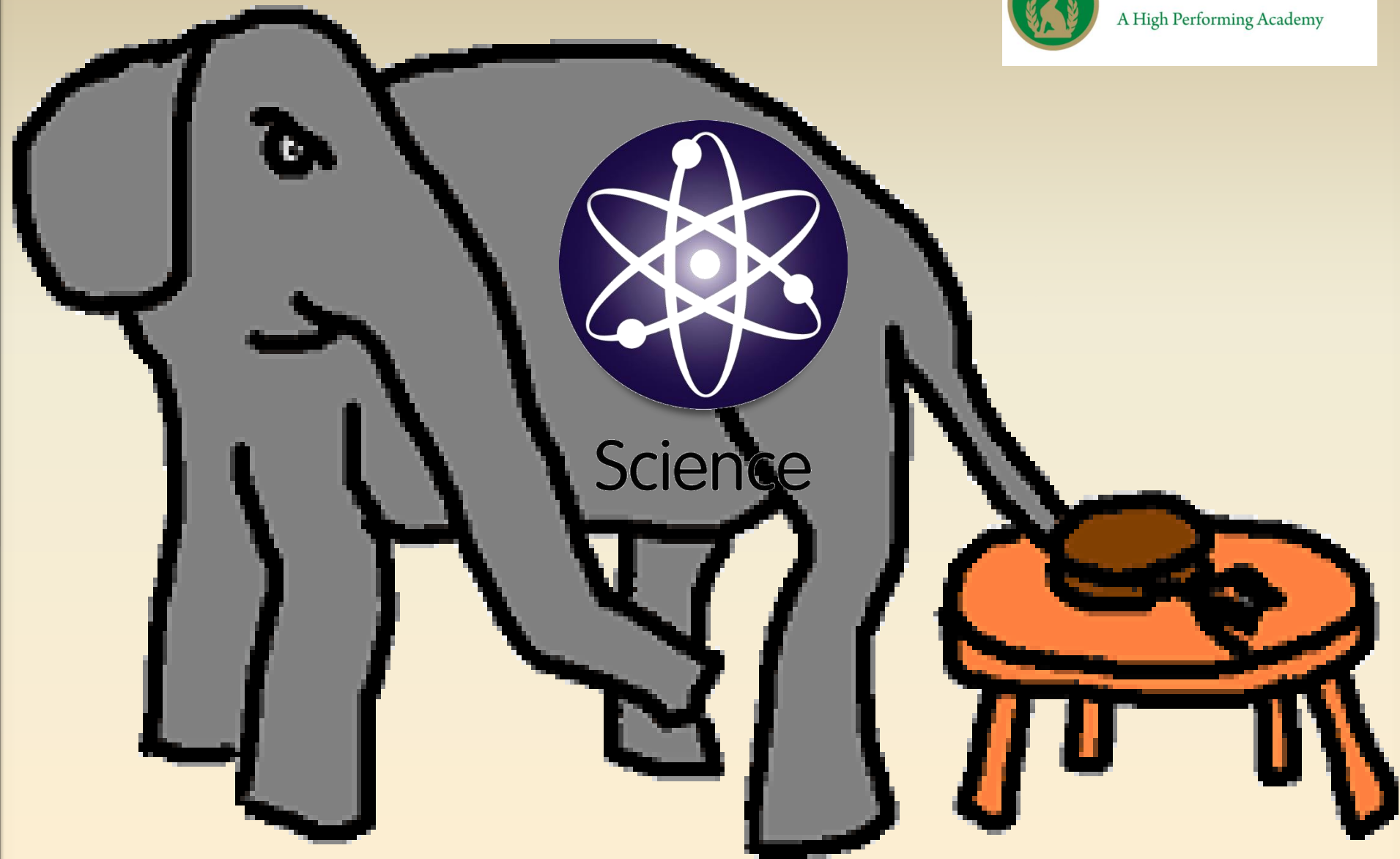


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Science



Chunk the information to make it bite sized



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Techniques –



What do I need to do to ensure I get a rubbish mark in this exam?

- Mis-read the question
- Write nothing
- Answer the wrong way
 - describe rather than explain
- Spend too much or too little time on one question
- Ignore the graphs / tables / diagrams
- Press the wrong buttons on my calculator
- See a scary word and mentally run away from the whole question.

Knowledge is necessary!

Hard and Soft Water

1. Briefly **explain** what hard water is.

ice

What

Why

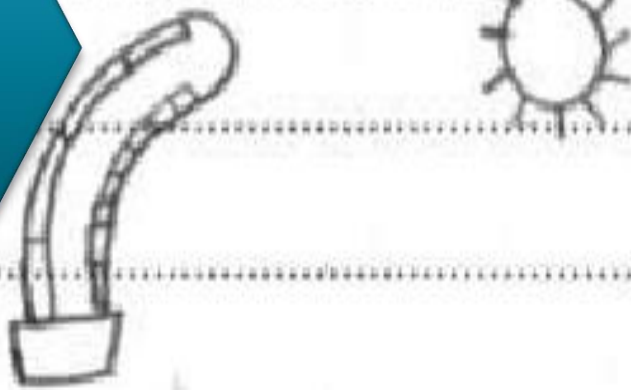
2. Note that calcium is one of the solids dissolved in ocean water. Describe two ways by which calcium ends up in sedimentary rock.

Shoot A bent towards the light as it grew.

Explain how.

The side of the plant facing the sunlight grew towards the light which means the other side got no light. This made ~~the~~ it grow more and bend towards the light. That side ~~so~~ more auxin was formed on that side, were longer.

Excellent use of a diagram, don't be restricted by the lines you still draw diagrams even on lined paper.



(4 marks)

Scientists have genetically modified [redacted] fish to act as pollution indicators. The genetically modified [redacted] fish have a gene transferred from a jellyfish. The gene allows the stripes of the [redacted] fish to change colour.

Describe how the scientists produced the genetically modified [redacted] fish.

So if the odd word that you don't understand gets in your way then cross it out and see if the question makes more sense after?

Techniques – What do they do to revise?



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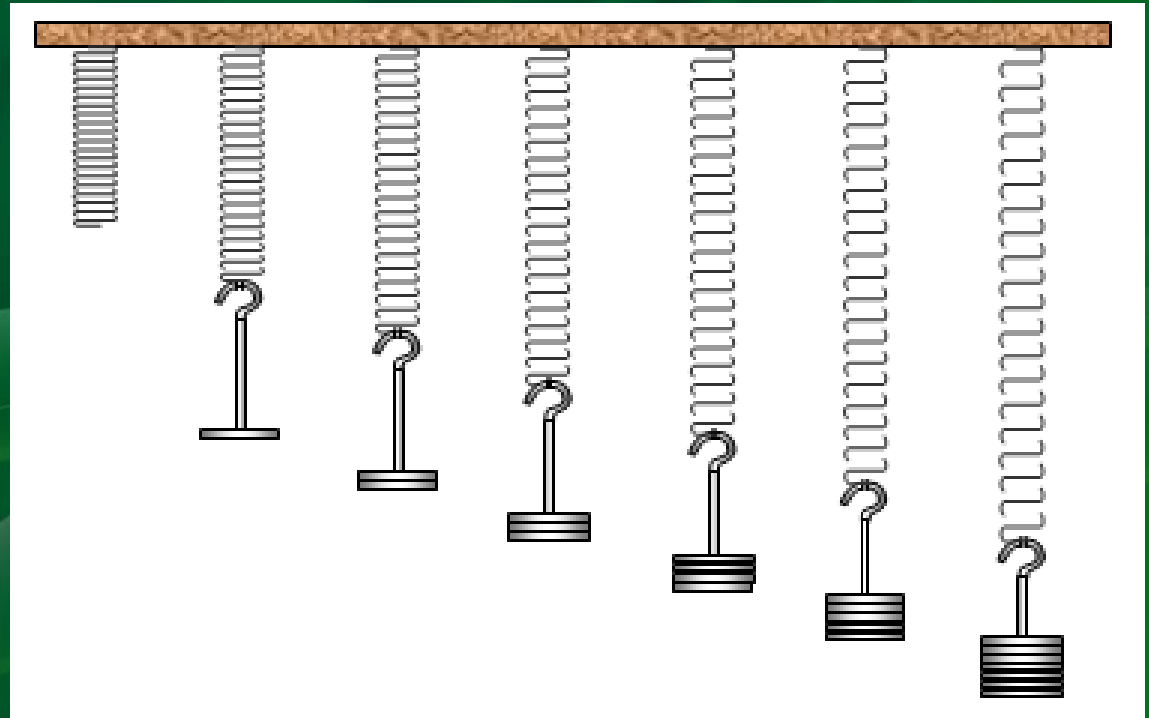
Passive to Active methods

- Reading
- Taking notes
- Mind maps / spider diagrams
- Highlighting
- Creating diagrams / images
- Creating songs, rhymes, mnemonics
- Answering questions (past papers)

GET CREATIVE

Challenge: Create a rhyme or poem (song, dance, rap, story) that might help to remember the stages a process or practical:

- Measure the starting length
- Add a mass
- Measure the spring extension
- Repeat



Remember this

- Spider Diagrams / Mind Maps
 - Video clips - internet keyword searches
 - Flash cards – condense the volume of information
 - Post-it notes – key words in places regularly visited
 - Glossary – Bingo or taboo
 - Diagrams → Lists
 - Processes → Flow diagrams
 - Read, Cover, Write, Check
 - using tables of data, diagrams, facts, even own flash card
- <http://www.bbc.co.uk/scotland/brainsmart/memory/rememberinglists.shtml>
- <http://www.bbc.co.uk/scotland/brainsmart/memory/takeawalkinyourmind.shtml>



Information conversion



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It may have been done for you?

Latest from Amoeba Sisters



Classification and Taxonomic Groups: Before the Bell Biology

5.7K views • 8 days ago



Time before the bell to try 10 questions focused on classification and taxonomic groups



Intro | Question 1 | Question 2 | Question 3 | Question 4 | Question 5 | Question 6 | Question 7 | Question 8 | Question 9 | Question 10



GCSE Physics (9-1)

Cognito · Playlist

GCSE Physics - Energy Stores, T

GCSE Physics - Kinetic Energy #

[VIEW FULL PLAYLIST](#)

Latest from Primrose Kitten Academy | GCSE & A-Level Revision

Non-specific defences in humans



Revision for
A-Level Biology



Non-specific defences in humans

61 views • 23 hours ago



Primrose Kitten Academy | GCSE

I want to help you achieve the grades you

[New](#)

For Exams in 2024 + 2025

Homeostasis

GCSE Biology



GCSE Biology Revision "Homeostasis"

858K views • 5 years ago



In this video, we look at how the body controls its internal



A key idea that you need to understand is that

Word Association



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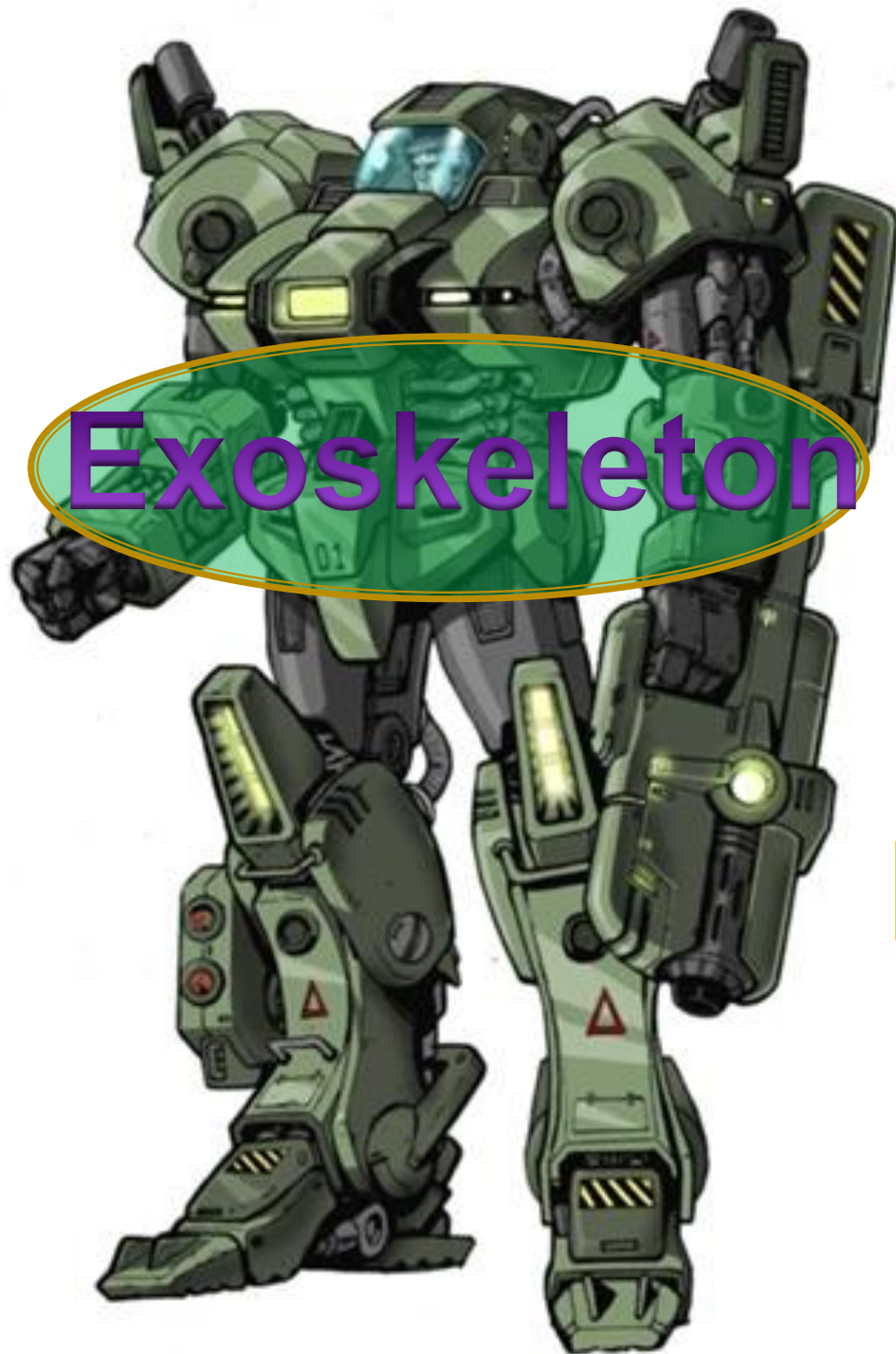
Look at the part of a word that is familiar!

Hydrocarbon **Hydrogen & Carbon**

Homozygous / Heterozygous

Kinetic





Exoskeleton



Endoskeleton

A large, powerful nuclear explosion is shown, with a massive, billowing mushroom cloud rising from a dark, rocky landscape. The cloud is bright orange and yellow at the base, transitioning to a lighter, hazy white at the top. The surrounding environment is dark and desolate, with some smoke or ash visible in the air.

Exothermic

A hand is shown holding a clear glass filled with a white, foamy liquid. The glass is positioned directly above a cylindrical metal tin can that is levitating in the air. The can has a green and white striped pattern. The background is a gradient of blue and purple, suggesting a laboratory or stage setting.

Endothermic

Top Tips for 'The Big Day'

Read through the questions carefully twice and underline the key words.

What is the 'command' word in the question? What is it asking you to do?

Look at how many marks are available, use this to help plan your time and how many points you need to make.



For extended writing tasks remember;
P – Make a point
E – Evidence it
E – Explain it
L – Link it and sum up

Make sure you answer every question. Look on the last page, make sure you haven't turned over 2 pages at once.

Try to use as much subject specific language as possible. Remember your glossary.

Take all your equipment with you. You will need a full pencil case and a calculator.