Specific tips to science!

Specific tips science!

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Science Exam Revision Techniques



To put it in context!!!!

Regardless of which science course you are following Triple or Combined you have a lot of information to remember 40% of your exam marks are based on your recollection of the information you have been taught

40% of your marks are from your ability to use the knowledge you have to answer questions that may be in a novel or unusual context.

Knowing the command words for your science papers are really important, knowing what the questions are asking you to do is important - a list of the command words and their meanings can also be found on the AQA website.

The Final 20% is based on your knowledge of the required practical activities you have covered and you working scientifically skills.

Top Tips

 Find a suitable environment away from distractions – should be without headphones, TV and music!

- Prevent social media use in revision time.
- Encourage repetition of harder topics.
- Sleep is important they should be aiming for 9-10 hours a night, especially during the exam period.

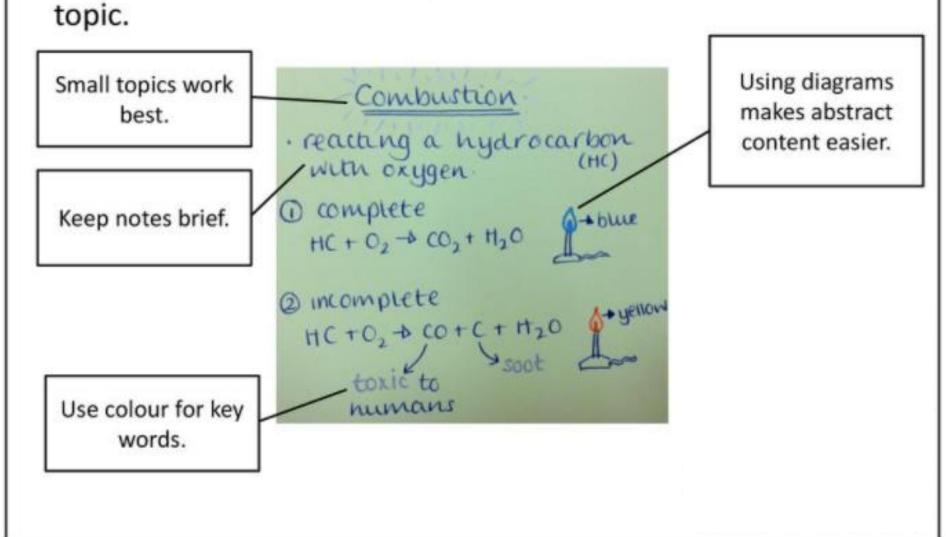
Useful Websites

- Check they are for the correct exam board.
- AQA Combined Science Trilogy
- Or
- AQA Biology/Chemistry/Physics

- https://www.bbc.co.uk/bitesize/levels/z98 jmp3
- https://senecalearning.com/en-GB/
- https://www.khanacademy.org/
- https://www.docbrown.info/
- https://www.aqa.org.uk/subjects/science/ gcse
- Primrose Kitten Academy | GCSE & A-Level
 Revision YouTube
- Freesciencelessons YouTube

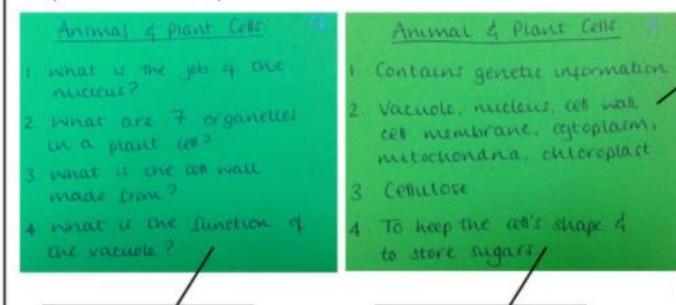
Flash Cards

 Use small pieces of card or paper to make concise notes on a topic.

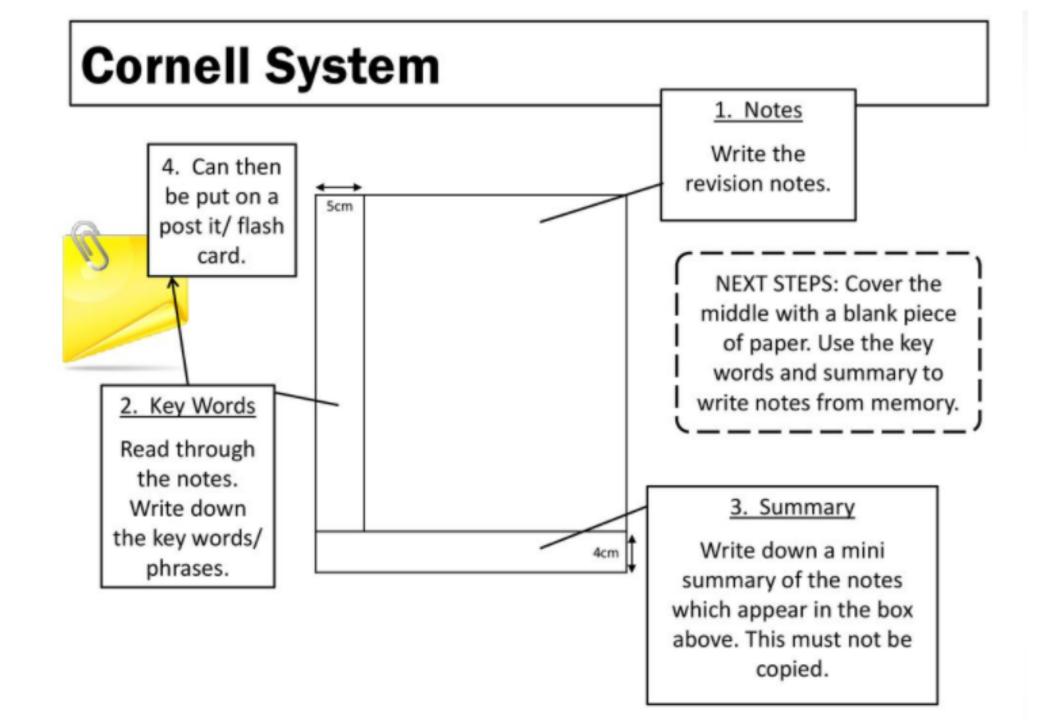


Q&A Cards

 Use small pieces of card or paper to write questions on a particular topic. The answer should be written on the other side.



Keep simple. Cover the areas that you are less confident with. Check answers by flipping over cards and repeat as much as possible.



Mind Maps

Mind map

Generate using short sharp sentences, key words and diagrams.

Learn it

Place the mind map in a prominent place.

Cover it

Cover the mind map with a blank sheet of paper try to redraw it.

Compare it

Compare the new mind map with the original – the difference between the two is what needs to be learnt.

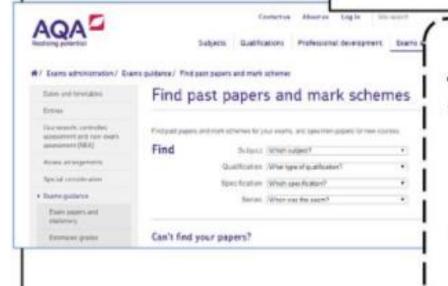
AQA Past Exam Papers

Many past exam papers and their mark schemes available online.

Can get there straight from a search engine.

OR

AQA: http://www.aqa.org.uk/exams-administration/exams-



IDEAS:

- Complete in one colour without notes and in timed conditions, and in another colour using notes.
 - Complete all in pencil, mark, rub out, and complete again.
- Complete the exam "closed book" (using no notes) and in the time period allowed.
 - Focus on weaker areas, as a whole exam paper can be daunting.

These are some of the common errors made by students when answering Science exam papers

••••

- Questions left blank.
- •Instructions not read
 e.g. tick TWO boxes, student only ticks one
 describe ".....", student tries to explain it
- Formulas not learned.
- Working out not shown lost marks!
- Long answers not planned jumbled up, not in logical order.
- BASIC IDEAS not learned e.g. mass / atomic number; photosynthesis/respiration.
- Percentages not calculated correctly (what is 72 as a % of 148?).
- Graph scales not read carefully (1 big square = 50 so what is each little square?).

The Questions on your exam papers are designed in a specific way – known as "Sawtooth"

There is a ramp in each question, i.e. each question will become more challenging as you go through it.

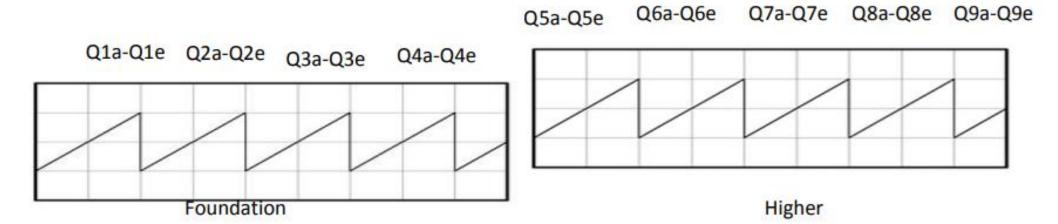
The first question will usually be fairly easy right through,

but then

each question starts off easy, then ends up being more challenging

then

the next question starts off easy again



Advice

Attempt EVERY question

READ the information at the **START** of the question **BEFORE** starting to answer, you will need it!

Q3.

Read the information about stem cells.

Stem cells are used to treat some human diseases

Stem cells can be collected from early embryos. These stem cells have not begun to differentiate, so they could be used to produce any kind of cell, tissue or organ. The use of embryonic stem cells to treat human diseases is new and, for some diseases, trials on patients are happening now.

Stem cells can also be collected from adult bone marrow. The operation is simple but may be painful. Stem cells in bone marrow mainly differentiate to form blood cells. These stem cells have been used successfully for many years to treat some kinds of blood disease. Recently there have been trials of other types of stem cell from bone marrow. These stem cells are used to treat diseases such as heart disease.

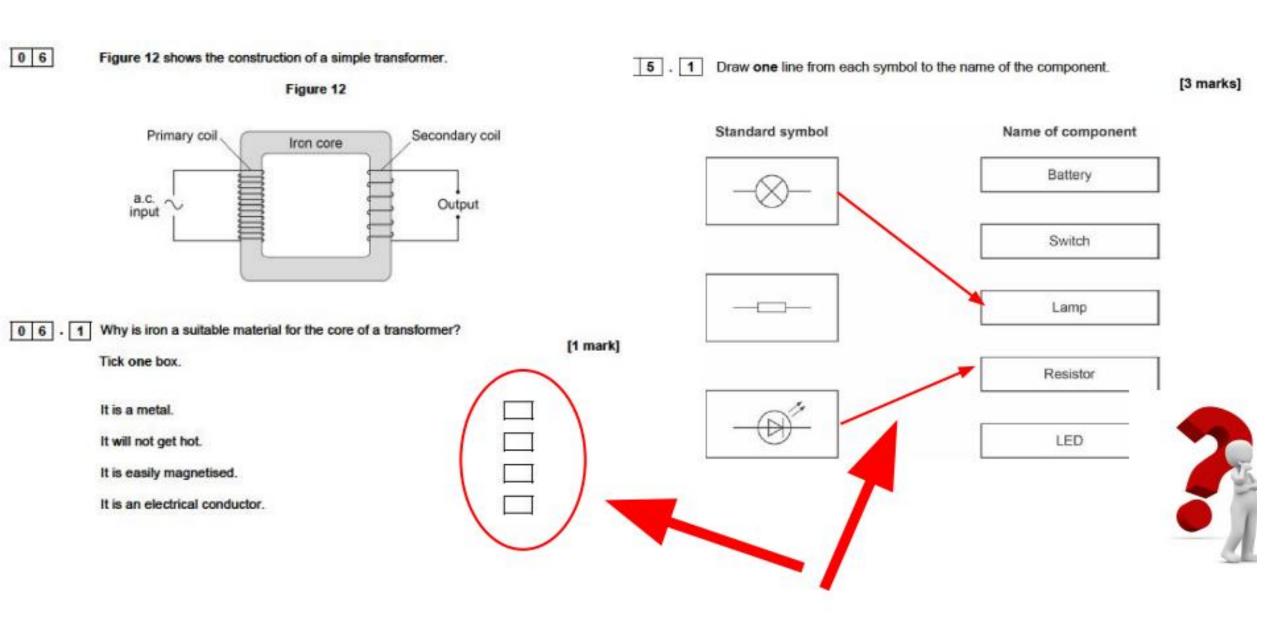
Evaluate the use of stem cells from embryos or from adult bone marrow for treating human diseases. You should give a conclusion to your evaluation.

(Total 5 marks)

You need to make sure you read all of the information in **GREEN** before you attempt the question in **YELLOW**.

Be prepared to leave a question partly finished and then come back to it.

NEVER leave blank a MULTIPLE CHOICE or LINK BOX QUESTION



Nor a SENTENCE COMPLETION question...

carbon dioxide	excretion	nitrogen	
oxygen	photosynthesis	respiration	

The increase in the area of forest lost has caused an increase

The increase in the area of forest lost has caused a	III IIICI ease
in the gas	•
The increase of this gas has been caused because	less of the gas is being
absorbed by plants for the process of	

Nor a PICK FROM A TABLE question...

Alcohol	Formula	Melting point in °C	Boiling point in °C
Methanol	CH₃OH	-94	65
Ethanol	CH₃CH₂OH	-118	78
Propanol	CH₃CH₂CH₂OH	-129	97
Butanol	CH₃CH₂CH₂CH₂OH	-89	118

0 6 . 1 Which alcohol in Table 2 is liquid over the greatest temperature range?

[1 mark]