



Science Revision resources





Make use of the advanced information released by the exam boards

What will be the major focus on the exam

Required practical activities that will be assessed

What will not be assessed





In Science we have to memorise facts

Flash cards can help.

You need to phrase the fact as a question.

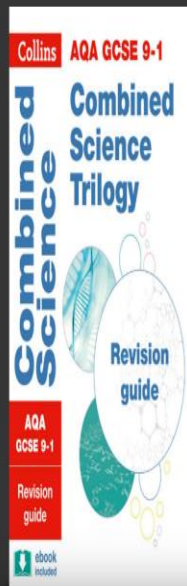
Fact- Acid rain is caused by sulfur dioxide and nitrogen oxide.

Question- State two gases which cause acid rain.



Resource – 2

Using revision guides with past paper questions and mark schemes.



Review Questions

Forces - An Introduction

1 Explain the difference between a contact force and a non-contact force. [1]

2 The gravitational field strength on the Moon is 1.6 N/kg and the gravitational field strength of Earth is 10 N/kg.

a) Calculate the weight of a 20 kg astronaut on b) the Moon and c) on Earth. [2]

3 Explain why an astronaut can jump higher on the Moon than on Earth. [2]

4 Use a vector diagram to show an object travelling with a driving force of 20N and a frictional force of 5N. [2]

Your diagram should show:

- The driving force
- The frictional force
- The resultant force
- The size of the resultant force

Total Marks /10

Forces in Action

1 In a ball game, the height between forces is 2.0m. The ball can travel a range between forces weight 100N. Calculate the work done by the engine when the lift car is raised up five floors. [2]

2 Figure 1 shows a light bulb.

Calculate the work done by a 60W bulb checking the state. ($E = 100\text{Wh}$) [2]

3 Explain why at least two forces are needed to stretch a spring. [2]

4 Using graphs as an example, explain what is meant by the term 'disproportionally'. [2]

5 A student carries out an experiment to investigate the extension of a rubber band.

The results are plotted in a graph of force over extension. The line produced is curved and gets steeper as the force increases.

Figure 1

Figure 2

What conclusions can be drawn from the graph? [1]

Total Marks /13

Forces and Motion

1 Describe the difference between speed and velocity. [1]

2 A boat travels south for three miles, west for two miles and then north for one mile.

a) What is the total distance travelled by the boat? [1]

b) Use a scale vector diagram to show the final displacement of the boat? [2]

3 A sound wave travelling in the ocean takes 2 seconds to travel 43m. Calculate the speed of sound in metres per second (m/s). [2]

4 On a distance-time graph, what do the following features represent?

a) A straight line with a steep gradient. [1]

b) A horizontal line. [1]

c) A curved line. [1]

5 Using an example, explain how an object can travel at constant speed but with a changing velocity. [2]

6 What force is given to the trajectory of objects at rest in motion and for moving objects to keep moving? [1]

Total Marks /14

Forces and Acceleration

1 Use the down whether each of the following statements is true or false.

a) If the resultant force on an object is doubled, its acceleration will double. [1]

b) If the force on an object is constant and the mass of the object increases, the acceleration will also increase. [1]

c) Newton's second law states that for every force there is an equal and opposite reaction force. [1]

Total Marks /10





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AQA GCSE Science Past Papers

AQA GCSE (9-1) Combined **Science** Trilogy (8464) and Combined **Science** Synergy (8465)


past exam papers and marking schemes, the **past papers** are free to ...








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 - Question papers (135)
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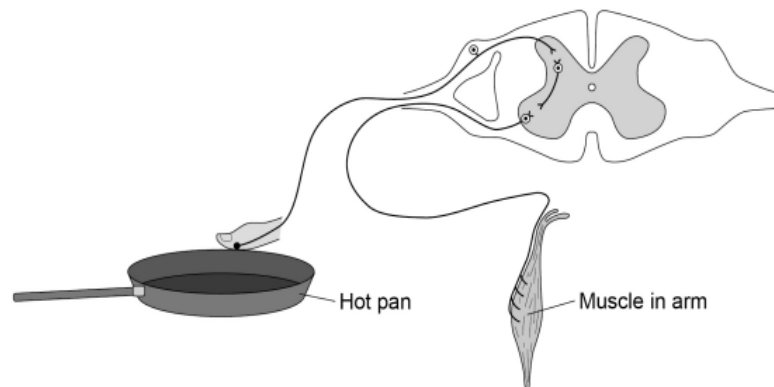


0 2 . 1

Reflex actions help to protect the body against damage.

Figure 2 shows the nervous pathway for a reflex action.

Figure 2



A stimulus from the hot pan will cause the muscle in the arm to contract and move the finger away.

Describe how the stimulus from the hot pan reaches the muscle in the arm.

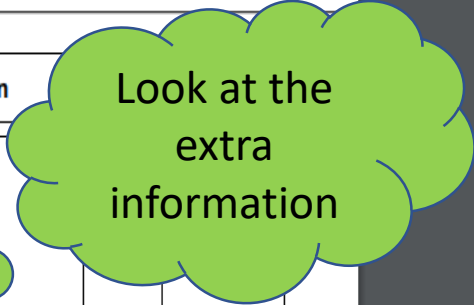
[4 marks]



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MARK SCHEME – GCSE COMBINED SCIENCE: TRILOGY – 8464/B/2H – JUNE 2020

| Question | Answers | Extra information |
|----------|--|--------------------------|
| 02.1 | any four from: <ul style="list-style-type: none">• (stimulus is) detected by the receptor• (initiates) an electrical impulse• (impulse) travels via the neurones• sensory, relay and motor• crosses synapses• (crosses synapses) as a chemical | allow in this order only |



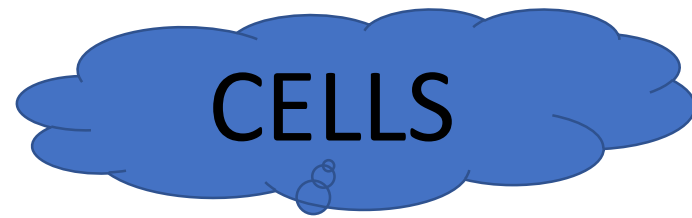


Resource – 3

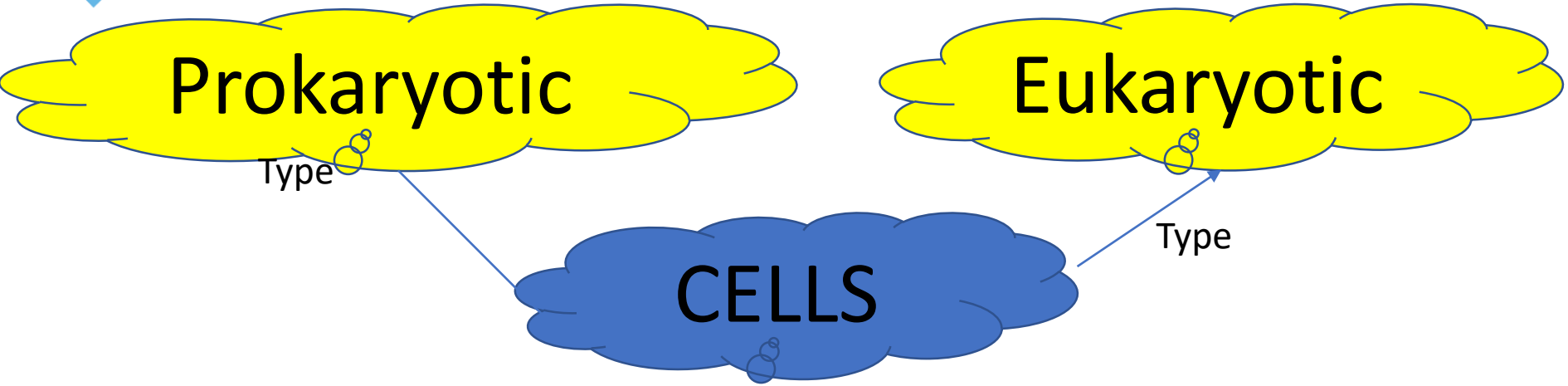
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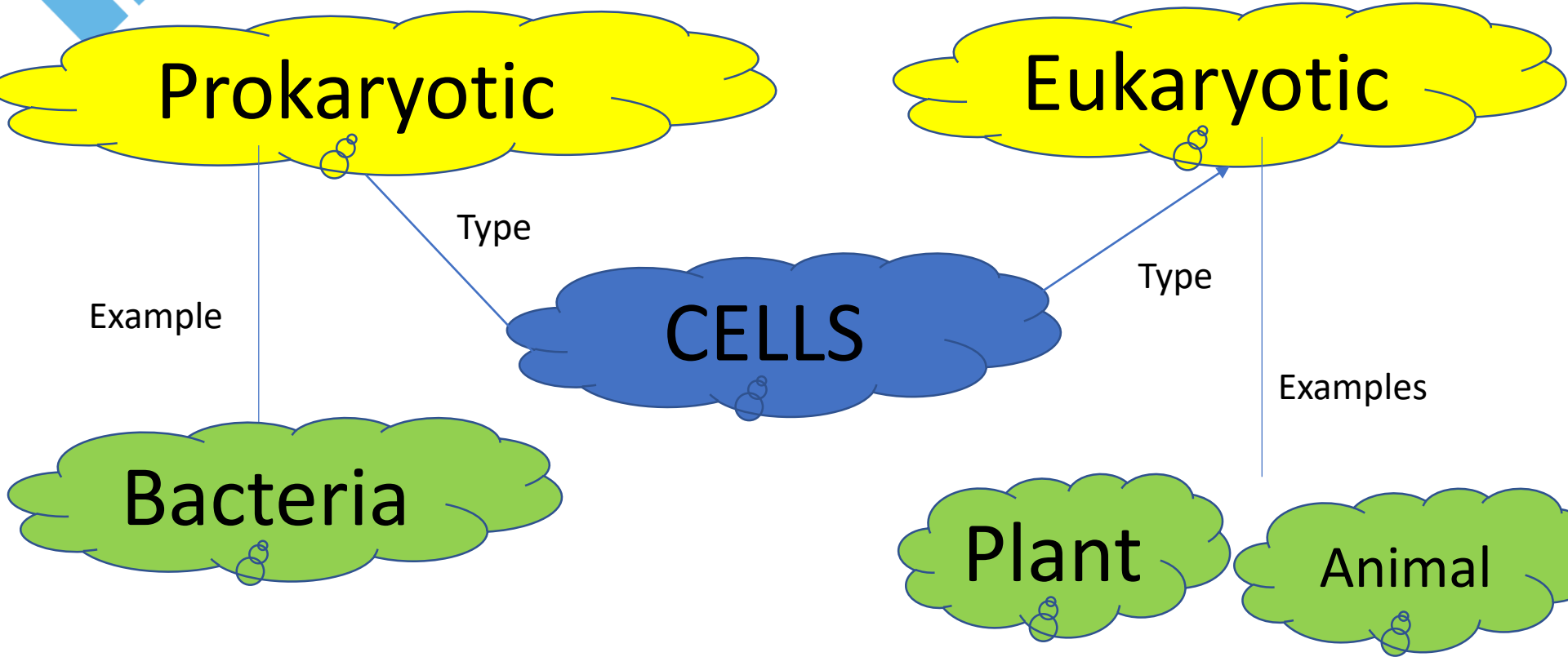




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