

### Double-shot

It seems lightning does strike the same place twice, in a way. This rare double lightning-strike was captured in Germany in June of 2000. Close inspection will show you that these are indeed two distinct bolts of lightning, not a mirror image. Such strikes generally happen when negatively-charged cloud bases set down over positively-charged land.

# Science!

## Have a **SPARK** of inspiration!



# 2017 – New Course Structure

## Quick Summary:

Combined Science – Biology, Chemistry and Physics – 2 GCSE grades. 6 Exams – 1 hour and 10 minutes each.

Separate Science – Biology GCSE, Chemistry GCSE, Physics GCSE – 3 GCSE grades. 6 Exams – 1 hour and 45 minutes each.

1. There will be a new **9–1** grading system, replacing A\*–G:  
**Foundation tier** will cover grades 1–5.  
**Higher tier** will cover grades 4–9.
2. There are **no controlled assessments** in the new qualifications. No coursework!
3. **Questions assessing students' use of mathematical skills will make up at least 15% of each exam.** There will also be some recall of equations required in physics.
4. **Maths skills for the higher paper are equivalent to the foundation Mathematics GCSE.**

# Revision: Essentially - Simple

Specification:

Science: Edexcel exam board.

Combined Science:

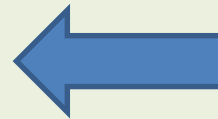
Separate (Triple) Science

Memory then Application



## 1. Know what it is you have to learn.

## 2. Learn / Revise it.



Revision Techniques:

Flash Cards, Revision Guides,

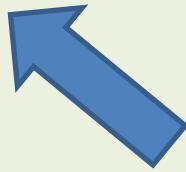
Revision Workbooks, Revision

Sites, Revision Apps, Podcasts

Ensure you can Apply what you

have memorised.

## 3. Practise Exam Questions



Question Types & Key Words:

Knowledge – **Memory** then **Application**

Skills / Using the Provided Information in a question correctly.

Long Answer Questions.

Not being caught out by the Question.

GCSE Science: Please read the questions below:

**Reading End**

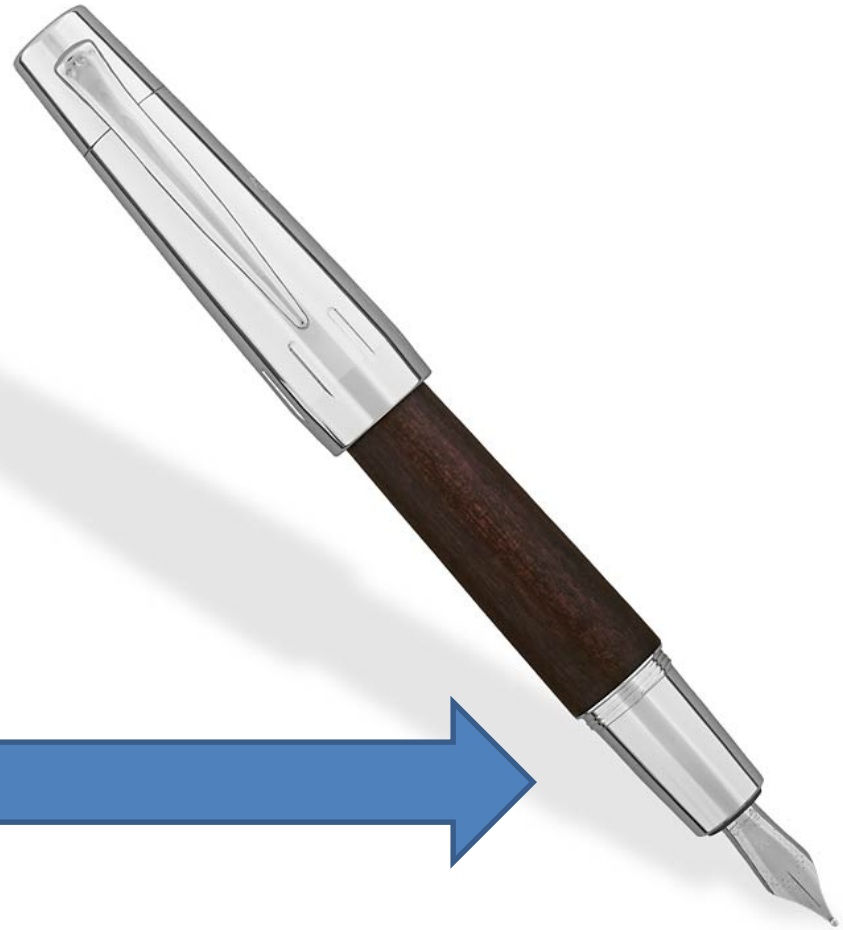
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**Writing End**



**Read the question carefully!**

# Science Specific – 6 Mark Questions

\*Rather than use fertilisers, farmers could encourage bacteria to grow in the soil to provide their crops with the minerals they require.

Explain how bacteria in the soil can cycle essential plant nutrients.

**(6)**

# Science Specific – 6 Mark Questions – Broken Down

\*Rather than use fertilisers, farmers could encourage **bacteria** to grow in the soil to **provide** their **crops** with the **minerals** they require.

**Explain** how **bacteria in the soil can cycle essential plant nutrients.**

**Linking of Knowledge and Logical order are essential – Include Practical techniques where possible!**

**(6)**

Answer the following:

**1. Describe a bacteria:**

**2. Explain a bacteria:**

**3. Evaluate/Discuss the uses of Bacteria:**

Describe: Linking facts/knowledge in a logical order.

\* Describe how *Agrobacterium tumefaciens* can be used to create transgenic plants.

Explain: Highest mark questions – Say how or why something happens.

\* The survival of some organisms may depend on mutualism. Explain, using three examples, how some organisms benefit from mutualism.

Discuss: Compare two or more viewpoints/systems and then explain why or create a conclusion (your viewpoint).

\* Discuss the advantages and disadvantages of the use of GM organisms.



Any Questions

