



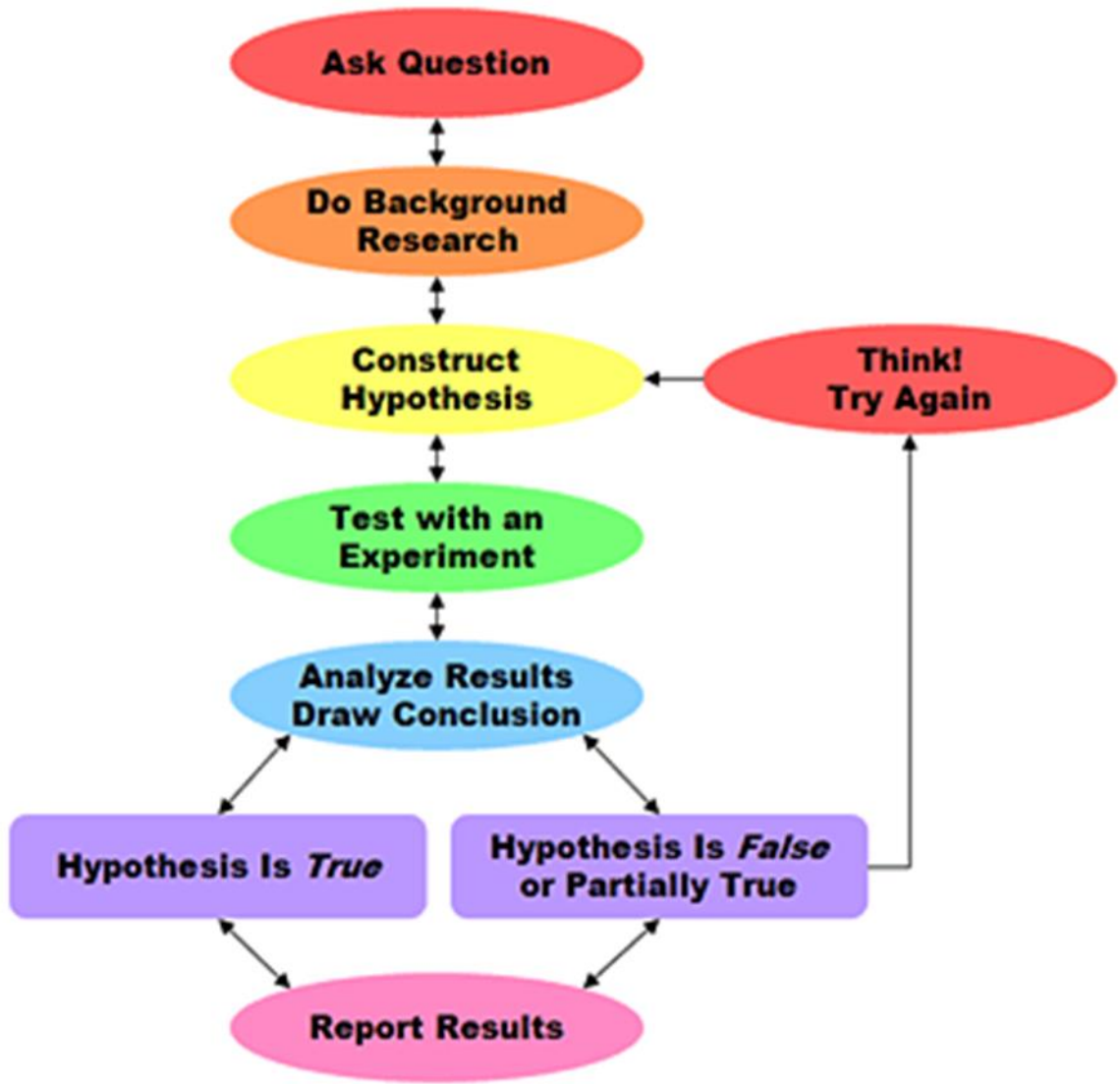
BA GCSE SCIENCE

Into your Future and beyond



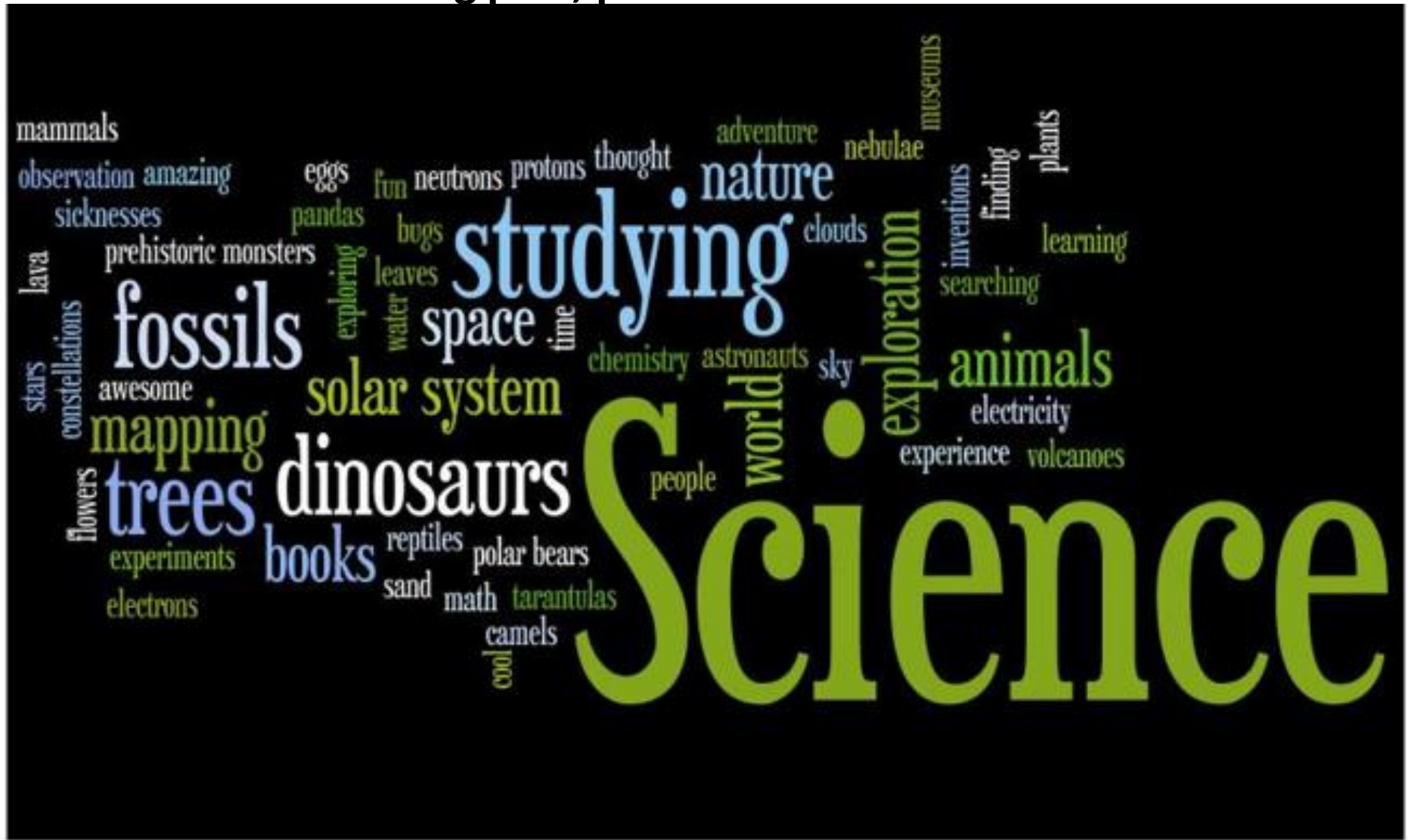
Through current studies you will have found out that...

If you can think and solve problems, you are a scientist.



Science is both a body of knowledge and a process of discovery that allows us to link isolated facts using a standard format

Random facts feed into a unified knowledge about the world around us and within including past, present and future occurrences



Science has changed our lives and is vital to the world's future prosperity.

All pupils will be taught essential aspects of knowledge, methods and uses of science.

Through building on knowledge and concepts, pupils will be encouraged to recognise the power of rational explanation and develop a sense of excitement and curiosity about natural phenomena.



Curriculum Intent



Clarification

All students will take science GCSEs and cover all three sciences, but 'triple' science gives three separate GCSEs whereas combined gives only two.

Impact

Science will be taught to all students at KS4 as either a core subject taught 4 times a week, or if triple science (Separate Sciences) is chosen as an option, 6 times a week.

All three sciences will be taught for both courses and include practical and math skills.



GCSE Science Content

Biology	Chemistry	Physics
Cell biology	Atomic structure and the periodic table	Energy
Organisation	Bonding, structure, and the properties of matter	Electricity
Infection and response	Quantitative chemistry	Particle model of matter
Bioenergetics	Chemical changes	Atomic structure
Homeostasis and response	Energy changes	Forces
Inheritance, variation and evolution	The rate and extent of chemical change	Waves
Ecology	Organic chemistry	Magnetism and electromagnetism
	Chemical analysis	Space (Triple only)
	Chemistry of the atmosphere	
	Using resources	



Separate sciences (Triple) only by invite

- You can only be invited by your class teacher based on your test scores this year.
- When you apply for the best universities (Russell Group) they like to see you have done triple science GCSEs

Triple Science Lessons

- If choosing 'triple' science as an option, you will have 6 science lessons a week
- 2 biology
- 2 chemistry
- 2 physics



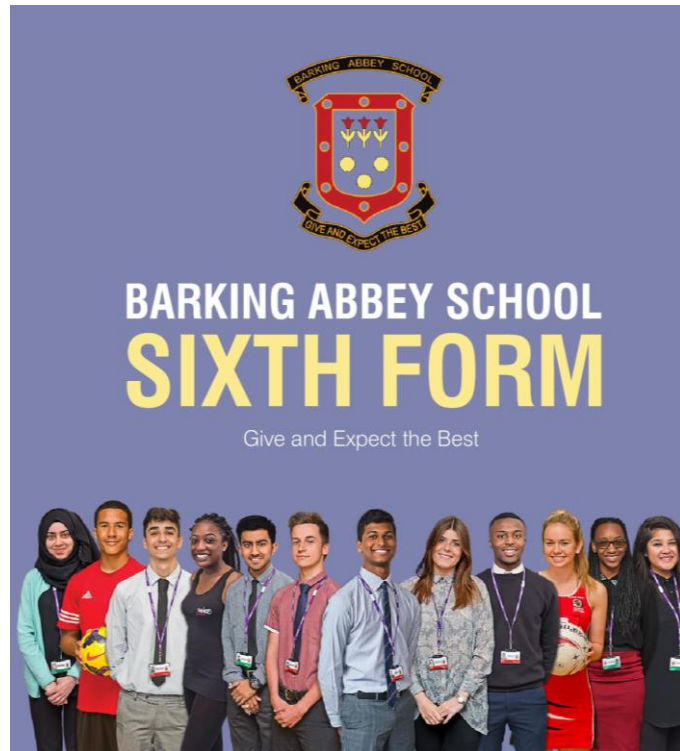
Priority is given to triple classes being taught by specialist teachers.

Assessments for Triple Science (OPTION)

- There are six papers: two biology, two chemistry and two physics. Each of the papers will assess knowledge and understanding from distinct topic areas.
- **Each paper is a written exam of 1 hour 45 minutes, worth 100 marks, and worth 50% of each separate science GCSE.**
- All students will sit the higher tier.



A Level Sciences



- Triple Science is a **necessity** for A level courses in science and a **prerequisite** for you if you want to study medicine at university for the best universities.

If you do not enjoy science at 4 lessons a week and you are offered triple...

Then we would not advise you to pick triple science!





Combined Science: Trilogy (CORE)

This qualification is equivalent to **two** GCSEs.

This **qualification is linear**, which means that students will sit all their exams at the end of the course.

The course is **100% examined**. The examination board for this course is AQA.

Assessments for Combined Science: Trilogy (CORE)

- There are six papers: two biology, two chemistry and two physics.
- Each of the papers will assess knowledge and understanding from distinct topic areas.
- **Each paper is a written exam of 1 hour 15 minutes, worth 70 marks, and worth 16.7% of the double award GCSE.**



Foundation and Higher Tier available.

science Results *(2020 results are centre assessed grades)

Combined Science	9-7 %	9-5 %	9-4 %
2018	13.5	43.0	65.6
2019	18.9	50.2	65.1
2020	14.0	57.7	83.3

- We are truly proud of our students and our results.
- You can look forward to your own success with confidence.

Biology	9-7 %	9-5 %	9-4 %
2018	55.3	100	100
2019	88	100	100
2020	83	100	100

Chemistry	9-7 %	9-5 %	9-4 %
2018	68.4	100	100
2019	88	100	100
2020	79.4	98	100

Phys	9-7 %	9-5 %	9-4 %
2018	52.6	97.4	2.6
2019	76	100	100
2020	71	97	100

Triple Science (OPTION) Progression

- Triple Science will complete **three** separate GCSEs.
- This course will cover the separate Sciences in **more detail**, which will give students a very solid grounding and progression for further study of the Sciences at A Level.
- **These could lead to many Science career choices for example, Medicine, Engineering, Physiotherapy, and many more. The examination board for this course is AQA.**



NB-This option is available by invite ONLY to those students achieving a high secure/ excelling level on average in year 8.



- A **STEM** job is any job in the fields of science, technology, engineering or math.

- Examples of Science jobs

- Chemist
- Biologist
- Physicist
- Environmental engineer
- Civil engineer
- Mechanical engineer
- Psychologist
- Physician assistant
- Data scientist
- Dentist
- Nurse
- Midwife

Some students do not commit to learning new skills as they argue that they will never need them. This is not true, studying science gives you many transferable skills that you need to succeed. For example promoting health and safety in your home and in work spaces etc



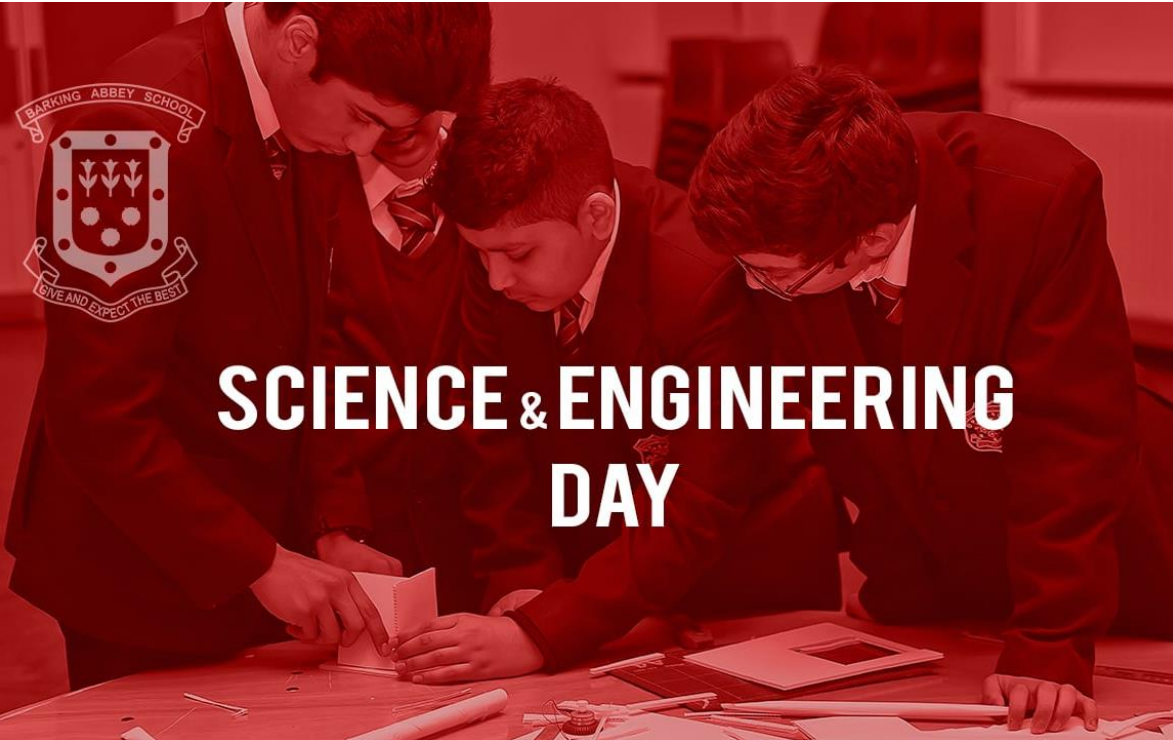
If you can think and solve problems, you are a scientist.

- Generalist Scientist

Examples

- -cook/ chef
- -art/fashion designer
- -athlete
- -hair technician





SCIENCE & ENGINEERING DAY

Thank you for
engaging