**Course Information : September 2020** 

# GCSE Sciences at Sir John Colfox Academy











### **AQA GCSE Science Trilogy Course**

## 2.1 Subject content

#### Biology

- 1. Cell biology (page 20)
- 2. Organisation (page 26)
- 3. Infection and response (page 34)
- 4. Bioenergetics (page 39)
- 5. Homeostasis and response (page 42)
- 6. Inheritance, variation and evolution (page 49)
- 7. Ecology (page 59)

#### Chemistry

- 8. Atomic structure and the periodic table (page 67)
- 9. Bonding, structure, and the properties of matter (page 75)
- 10. Quantitative chemistry (page 84)
- 11. Chemical changes (page 88)
- 12. Energy changes (page 95)
- 13. The rate and extent of chemical change (page 98)
- 14. Organic chemistry (page 104)
- 15. <u>Chemical analysis</u> (page 107)
- 16. <u>Chemistry of the atmosphere</u> (page 110)
- 17. Using resources (page 115)

#### Physics

- 18. Energy (page 121)
- 19. Electricity (page 127)
- 20. Particle model of matter (page 135)
- 21. Atomic structure (page 138)
- 22. Forces (page 143)
- 23. <u>Waves</u> (page 155)
- 24. Magnetism and electromagnetism (page 159)

There are six papers each is 1 hour and 15 minutes in length. Biology 1 & 2, Chemistry 1& 2 and Physics 1 & 2. Each of the papers will assess knowledge and understanding from distinct topic areas.

## **AQA Science Courses?**

Science has something to offer every student, whatever their interests or ability which is why we offer both the AQA Separate science courses of GCSE Biology, Chemistry and Physics as well as the double award GCSE Combined Science - Trilogy option.

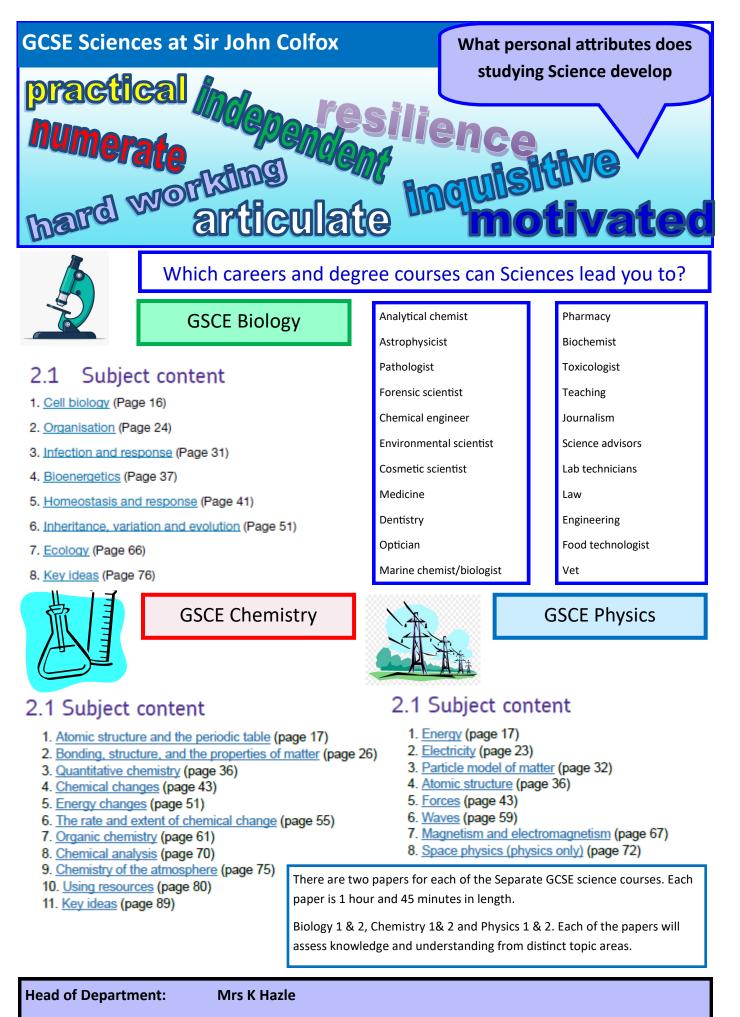
Both of these GCSE courses offer students the opportunities to continue science to A level and beyond.



Students gain practical skills throughout their GCSE courses and students are required to undertake a range of practical tasks as part of their GCSE studies. These will be assessed in each of their six exams

We provide each student with a practical skills booklet in Biology, Chemistry and Physics at the start of their studies to allow them to use this for revision at the end of year 11.

We also have a transition unit on the maths skills that students need at the start of their GCSE helping student with key maths skills they will face studying Science.



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