



St Benedict's Catholic School

The Catholic Secondary School for West Suffolk

SCIENCE CURRICULUM GUIDE 2016

Year 9 Autumn

Students will begin their work covering the material for their GCSE Science. They will complete 3 over the course of the year and at Easter will sit a GCSE paper, the results of this we will use to judge their suitability for entry onto the separate science courses in year 10. Typically 60 students from the year group will be entered for the separate sciences and 90 will complete new combined award.

Assessment will be in the form of chapter tests with the new practical activities incorporated into the scheme of work for each science.

All students will undertake the following modules in the autumn term:-

B1.1 Cell level systems

- B1.1 Structures
- B1.2 What happens in cells
- B1.3 Respiration
- B1.4 Photosynthesis

C2 Elements, compounds and mixtures

- C2.2 Bonding

P1 Matter

- P1.1 The particle model
- P1.2 Changes of state
- P1.3 Pressure

Year 9 Spring

Students have begun and will continue to work their GCSE Science. Further units covered in the spring term are as follows:

P2 Forces

- P2.1 Motion
- P2.2 Newton's laws
- P2.3 Forces in action

B2 Scaling up

- B2.1 Supplying the cell
- B2.2 Challenges of size

C2 Elements, compounds and mixtures

- C2.1 Purity and separating of mixtures

Year 9 Summer

Students have begun and will continue to work their GCSE Science. Over the course of the year they will have covered units 1, 2 and 3.1 from chemistry, biology and physics with the addition of 3.2 from the physics specification. Further units covered in the spring term are as follows:

B3 Organism level systems

B3.1 Coordination and control

C2 Elements, compounds and mixtures

C2.3 Properties of materials

C3 Chemical reactions

C3.1 Introducing chemical reactions

P3 Electricity

P3.1 Static and charge

P3.2 Simple circuits

Homework

Students can expect to be set one piece of homework per week by each of their science teachers. The quantity and style of the homework is likely to suit the ability of the science set that they are in.

Activities might include

- a set of questions to improve or check understanding of work covered in class
- an extended research activity on an application of a topic covered in class e.g. digital technology, ultrasound in medicine
- writing up on an experiment performed in the laboratory
- learning key definitions for a short test