

Curriculum Topics Studied At Springfield

| Science | Autumn 1 | Autumn 2 | Spring 1 | Spring 2 | Summer 1 | Summer 2 |
|--|---|-----------------|-----------------|-----------------|-----------------|-----------------|
| Year 7 | A rotation of the following topics: Introduction to Science, cells, particles, forces and magnets, acids and alkalis and simple chemical reactions, reproduction, circuits, ecology and biodiversity | | | | | |
| Year 8 | A rotation of the following topics: Earth and atmosphere, elements, compounds and mixtures, energy, inheritance, exercise and health, food and digestion, 'green' farming, space, light and sound, metals and speed, | | | | | |
| Year 9 | Required GCSE practicals covering the following topics: Microscopy, making salts, specific heat capacity, osmosis, electrolysis, resistance, food testing, enzymes, density, chromatography. Year 9 then move onto the Double Science modules listed below. | | | | | |
| Double Science Year 9/10 and 11 | A rotation of the following GCSE modules: Biology: cell biology, organisation, infection and response, bioenergetics, homeostasis and response, inheritance, variation and evolution and ecology. Chemistry: atomic structure and the periodic table, bonding, structure, and the properties of matter, quantitative chemistry, chemical changes, energy changes, the rate and extent of chemical change, organic chemistry, chemical analysis, chemistry of the atmosphere, and using resources. Physics: energy, electricity, particle model of matter, atomic structure, forces, waves, magnetism and electromagnetism. | | | | | |
| Triple Science Year 10/11 | Triple Science pupils complete all of the Double Science modules above (including extra content in many of the modules and additional required practicals). They also complete an additional module on space. | | | | | |