



# PARK HALL ACADEMY

## INDEPENDENT LEARNING

*Supporting development*

**SPRING TERM**

Subject (GCSE/BTEC & subject & KS)

GCSE Science Gateway Year 11

### Unit title and main topics/themes

P4 Radiation for life	Electrostatics, Ohm's law, Ultrasound, Treating cancers using radiation, Radioactivity, Uses of radioisotopes, Nuclear fission
C4 Chemical Elements	Acids & Bases, Reacting masses, Fertilizers and crop yield, making ammonia, Haber Process, Detergents, Nanochemistry, How pure is our water?
B4 It's a green world	Structure of a leaf, Water in plants, Plants & Minerals, Energy flow, Farming, Decay, Recycling

### Basic/general description of homework set

Homework is based upon consolidating and extending understanding of topics covered.

- Research
- Worksheet
- Extended writing
- Scientific writing
- Graph/Analytical skills
- Correct use of terminology
- Writing experimental methods
- Collecting data

### Course details – exam board, website, other useful resources, dates/months of exams

OCR Gateway GCSE Additional Science B [www.ocr.org.uk](http://www.ocr.org.uk)

[www.gatewayscienceonline.co.uk](http://www.gatewayscienceonline.co.uk) username: Parkhall student: Passwords