



# PARK HALL ACADEMY

## INDEPENDENT LEARNING

*Supporting development*

**AUTUMN TERM 2011**

Subject SCIENCE

**BTEC Level 2 Extended Cert in Applied Science Year 10**

### **Unit title and main topics/themes**

#### **Unit 1 Chemistry and our Earth**

Students acquire knowledge of fundamental chemistry concepts and the environmental effects of human and natural activity related to chemistry. Students will develop skills that underpin applications of chemistry in the manufacturing and service industries.

#### **Unit 2 Energy and our Universe**

Students develop knowledge and skills related to fundamental physical concepts, so that they can investigate energy transformations, radiation and their applications, and gain knowledge of waves, how electrical energy is transferred for various applications and how our universe has evolved.

#### **Unit 3 Biology and our Environment**

Students develop knowledge and skills related to fundamental concepts in biology. This includes investigating living organisms, how humans impact on the environment and the factors that affect human health.

### **Basic/general description of homework set**

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

Students are expected to meet assignment deadlines. If coursework is unfinished by the deadline date, students are expected to catch-up and complete work in their own time. This can be achieved by working at home, after school, during lunch or morning break.

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

Edexcel BTEC Level 2 Extended Certificate in Applied Science (30 credits)

<http://www.edexcel.com/migrationdocuments/BTEC%20Firsts%20from%202010/BTEC-Firsts-Applied-Science-spec.pdf>

To gain this qualification, all coursework assignments must be completed by the end of Year 10.