

Sets (s): All

YEAR 7

SUBJECT Science

Knowledge Focus: Space and electricity



Ysgol Uwchradd
Prestatyn
High School

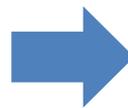
This half term : Skills, Knowledge and Understanding to be developed: Students will study the solar system. Why we have day and night and the seasons.

Students will learn how to use electricity safely. They will study series and parallel circuits and how to measure current and voltage. They will also learn about static electricity and the uses of it.

Key Terms to be learned this half term: solar system, planet, moon, asteroids, crater, meteor, axis, satellite, hemisphere, circuit, electric current, power pack, voltage, current, ammeter, components, series circuit, parallel circuit and static electricity.

Week 1 and 2 Learning Objectives etc:

You will learn about how we have day and night. Complete the worksheet on hours of daylight for the app. **numeracy**



Objective assessments:

APP P and H band 7Lc(4)
Light levels S band Hours of daylight 7Lc(2)

Homework:

7Le(1) starry starry nights

Explain what causes seasons and years 7Lc(1).

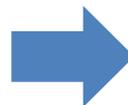
Describe how planets, dwarf planets and asteroids are arranged in the Solar System.

Carry out an experiment simulating the meteor impact forming craters on a planet.

Use the internet to find reliable and unbiased answers to questions on Space

Week 3 and 4 Learning Objectives etc:

Recall the rules for using electricity safely in science lessons, basic circuit symbols and set up a simple series circuit.



Objective assessments:

Set up a series circuit and be able to draw a circuit diagram correctly, record and measure current **numeracy(7jA3)**.

Homework:

Complete the circuit symbols worksheet.

Carry out an investigation on electrical conductors and insulators.

Learn how to measure current in a series circuit.

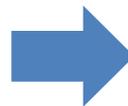
You will learn how to correctly set up circuits in parallel and be able to draw circuit diagrams.

You will measure current in parallel and learn that current splits up in a parallel circuit.

Be able to set up a parallel circuit, draw the circuit diagram and measure current **numeracy**.

Week 5 and 6 Learning Objectives etc:

You will plan and carry out an investigation on fruity batteries and voltage.



Objective assessments:

SA on fruity batteries investigation.

Homework:

Electricity word search (7jA6)

You will learn about wires and electricity, what a fuse does. Also observe an investigation testing fuse wire.

You will learn about static electricity and carry out an investigation on static electricity.

Carry out practical and complete results table (spotlight 8 pg 130)

Questions 1-4 pg 131

Sets (s): All

YEAR 7

SUBJECT Science

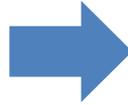
Knowledge Focus: Space and electricity



Ysgol Uwchradd
Prestatyn
High School

Week 7 Learning Objectives etc:

- You will learn about the dangers and uses of static electricity.



Objective assessments:

Homework: