

S1 Modern Studies

Democracy in the UK and Scotland

Throughout this unit pupils will build on their understanding of key concepts which make up our political system.

We will explore things such as:

Democracy vs Dictatorship

- The UK Parliament
- Scottish Parliament and devolution
- Political Parties
- Election Campaigns
- Participation
- Role of MP/MSPs

S1 Geography

Map Skills

Throughout this unit pupils will build up their understanding of key Mapping Concepts.

They will focus on:

- Locating position on a Global Map
- Where and Why do we use maps?
- Map Symbols
- Reading an OS Map
- Four figure Grid reference
- Six figure Grid reference

S1 Geography

Glaciation

Throughout this unit pupils will learn about Glaciation and be able to link it with Landscape around them.

They will focus on:

- What is a Glacier
- How do they change the Landscape
- Erosional Landscapes
- How do we use these Landscapes
- What conflicts arise between different land users

S2 Geography

Weather

Throughout this unit pupils will learn about Weather and the causes.

They will focus on:

- What is Weather and Climate
- How do we measure Weather
- What are Air Masses
- Forecasting the Weather
- Anticyclones
- Depressions

Curriculum Information

Sandwick Junior High School

Term: 1

Teacher: Dr Irvine



Key Dates: Assessment/Trips/Visiting Speakers

S2 Weather assessment prior to topic change (18th September)

S2 Geography

Population

Throughout this unit pupils focus on the changes in World population and the consequences of this change.

- How do we know Populations are changing
- Where people live and why.
- Population Pyramids
- What is the future for our Population.

S3 Geography

Climate Change

Throughout this unit pupils explore the Global Issue of Climate Change.

They will focus on:

- Features of climate change
- Causes, including:
 - Physical (natural) causes that can change or impact the Earth's climate.
 - Human (influenced) impacts that have implications for climate change.
- Effects on a local and global scale, including:
 - Temperature rises
 - Sea level rise
 - Flooding
 - Storms
- Management strategies to minimise the impact/effects of Human driven climate change

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Key Dates: Assessment/Trips/Visiting Speakers

Assessments will be carried out prior to Topic change, which will be at the beginning of Term 2.

S3 Physics

Waves and the Electrtomagnetic Spectrum

Throughout this unit pupils explore waves and their uses.

They will focus on:

- Transverse and longitudinal waves.
- Frequency, period, wavelength, amplitude and wave speed for longitudinal and transverse waves.
- Diffraction
- Electromagnetic spectrum
- Sources, detectors and applications for each band in the electromagnetic spectrum.
- Refraction of light
- Identification of the normal, angle of incidence and angle of refraction in ray diagrams showing refraction.

S4 Geography

Population

Throughout this unit pupils focus on the changes in World population and the consequences of this change.

- use of social and economic indicators
- physical and human factors influencing global population distribution
- factors affecting birth and death rates

S4 Geography

Weather

Throughout this unit pupils will explore the factors that affect weather within the UK

They will focus on:-

- the effect of latitude, relief, aspect and distance from sea on local weather conditions
- the characteristics of the five main air masses affecting the UK
- the characteristics of weather associated with depressions and anticyclones

S4 Physics

Properties of Matter

Throughout this unit pupils explore the effects of energy on matter.

They will focus on:

- Specific heat capacity - raising the temperature
- Specific latent heat - change the state.
- Gas laws and the kinetic model - Use of appropriate relationships to solve problems involving the volume, pressure and temperature of a fixed mass of gas.

S3 - S4 Energy

Introduction

The aim of the unit is to provide learners with an overview of where we get our energy from, the engineering systems that convert it into a more convenient form, and the energy conversion processes that take place from fuel being input to energy being generated.

It gives a broad overview of traditional and renewable energy systems, energy conservation and includes an evaluation of an industrial or domestic energy generation facility.

Investigation and presentation skills are developed in this unit.

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S3 - S4 Energy

Employability and Careers

Learners will review their performance in the employability skills undertaken in significant practical activities in the units throughout the course and evaluate their own strengths and weaknesses. It will also involve students investigating careers and job roles within the energy sector.

Key Dates: Assessment/Trips/Visiting Speakers

S3/4 Energy trip to Viking Windfarm 23rd September
S4 Geography Assignment 1st draft - Wed 2nd November

S4 Geography Assignment final write up - Wednesday 25th November

S4 Physics Assignment - Through the month of November