

SUMMARY - Relevance in Curriculum for Excellence - Scotland

Sciences: experiences and outcomes - 'Planet Earth'

Biodiversity and interdependence - Learners explore the rich and changing diversity of living things and develop their understanding of how organisms are interrelated at local and global levels. By exploring interactions and energy flow between plants and animals (including humans) learners develop their understanding of how species depend on one another and on the environment for survival. Learners investigate the factors affecting plant growth and develop their understanding of the positive and negative impact of the human population on the environment.

Second - 'I can use my knowledge of the interactions and energy flow between plants and animals in ecosystems, food chains and webs. I have contributed to the design or conservation of a wildlife area.' SCN 2-02a

Sciences: experiences and outcomes - 'Forces, electricity and waves'

Forces - Learners first develop an understanding of how forces can change the shape or motion of an object, considering both forces in contact with objects and those which act over a distance. They investigate the effects of friction on motion and explore ways of improving efficiency in moving objects and systems. Study of speed and acceleration of an object leads to an understanding of the relationship between its motion and the forces acting on it. This is linked to transport safety. Learners develop their understanding of the concept of buoyancy force and density.

Second - 'By investigating floating and sinking of objects in water, I can apply my understanding of buoyancy to solve a practical challenge.' SCN 2-08b

Sciences: experiences and outcomes

'Topical Science' - By considering current issues of science, learners increasingly develop their understanding of scientific concepts and their capacity to form informed social, moral and ethical views. They reflect upon and critically evaluate media portrayal of scientific findings.

First - 'I have contributed to discussions of current scientific news items to help develop my awareness of science.' SCN 1-20a

Second - 'I can report and comment on current scientific news items to develop my knowledge and understanding of topical science.' SCN 2-20b

Social Studies: experiences and outcomes - 'People, place and environment'

First - 'I can consider ways of looking after my school or community and can encourage others to care for their environment.' SOC 1-08a

Second - 'I can discuss the environmental impact of human activity and suggest ways in which we can live in a more environmentally responsible way.' SOC 2-08a

Technologies: experiences and outcomes - 'Technological Developments in Society and Business'

Organiser - Impact, contribution, and relationship of technologies on business, the economy, politics, and the environment.

First - 'I can take appropriate action to ensure conservation of materials and resources, considering the impact of my actions on the environment.' TCH 1-06a

Second - 'I can analyse how lifestyles can impact on the environment and Earth's resources and can make suggestions about how to live in a more sustainable way.' TCH 2-06a

Second - 'I can make suggestions as to how individuals and organisations may use technologies to support sustainability and reduce the impact on our environment.' TCH 2-07a