

Hobbs Hill Wood Primary School

Knowledge Organiser for:
Geography
Year 6, Summer
Our future World



'Inspiring confident and independent learners'

Knowledge

- To understand what is vital for the Earth and know that we play a huge part in its survival
- Understand the concept of interdependence
- understand the importance of different biomes and their qualities for the future of our planet.
- Understand what the threats to our biomes are, the reasons for them and what we can do to help
- Understand what our planet needs to survive

Core vocabulary

Sustainability, biomes, interdependence, threats, global warming, deforestation, pollution, resilience, flow, diversity, ice, space, abundance, hotspots



Skills

- Engage in meaningful discussion about the survival of our planet
- Reflect of our concerns and feelings and questions
- Explain what is happening to our planet's biomes and what we can do to change
- Make personal pledges about changing for the good of our planet
- Write descriptively about the changes our planet has gone through
- Use creative thinking to communicate what our planet needs to survive



Hobbs Hill Wood Primary School

Knowledge Organiser for:

Science

Year 6, Summer

Light



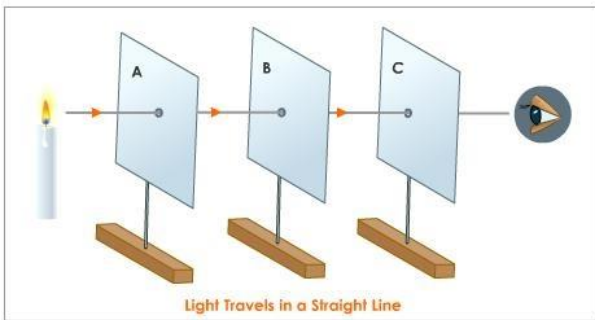
'Inspiring confident and independent learners'

Knowledge

- Know that we need light to be able to see things
- Understand how light waves travel from sources in straight lines and these lines are called rays or beams of light
- Know that objects are seen because they give out or reflect light into our eyes
- Know that when light is blocked a shadow is made

Core vocabulary:

light, light source, image, reflection, shadow, rays, beams, straight, sun, refraction



Skills

- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Use the idea that light travels in straight lines to explain why shadows have the same shape as the objects that cast them.
- Plan different types of scientific enquiries to answer questions, including recognising and controlling variables where necessary.
- Take measurements with increasing accuracy and precision, taking repeat readings when appropriate.
- Record data and results of increasing complexity using scientific diagrams.
- Report and present findings from enquiries, including conclusions, causal relationships and explanations of and degree of trust in results, in oral and written forms.
- Identify scientific evidence that has been used to support or refute ideas or arguments.

Hobbs Hill Wood Primary School

Knowledge Organiser for:
Design and Technology
Year 6, Summer
Beat the Flood Challenge



'Inspiring confident and independent learners'

Knowledge

- understand that houses need to be strong and withstand floods in some parts of the world
- know how to use the features of existing products to help design new products with an increasing amount of detail
- understand that ideas need to be realistic and take into account the properties of available materials and the intended use of the product
- To know the function, properties and aesthetic qualities of a wide range of materials
- Know how to use a range of tools and materials safely and combine these to create strong, purposeful prototypes
- To know what 'good quality prototype' is and how to adapt and refine original design ideas
- To know how to use design criteria to evaluate and improve their products.

Core vocabulary:

Design, purpose, properties, materials, flood-resistance, climate change, reality, prototype, adapt, evaluate, rethink



Skills

- Generate, develop, model and communicate their ideas through discussion, annotated sketches and cross-sectional diagrams
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures
- Investigate and analyse a range of existing products
- Select from and use a wider range of materials and components according to their functional properties and aesthetic qualities
- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups
- Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work

