

Core Knowledge

- Across the world, homes are adapted to the prevailing conditions that impact on them.
- The climate and topography have an impact upon homes.
- Sustainability improves the quality of our lives, protects our ecosystem and preserves natural resources for future generations.
- Carbon neutrality (net) is a state of net zero carbon dioxide emissions. This can be achieved by ending the use of coal, oil and gas.

Sustainability



Domain

- *Sustainable housing.*
- *Homes around the world.*
- *Introduction to budgeting.*
- *Impact of global warming.*
- *Conductors, convectors, and radiation.*
- *Energy sources.*
- *Bloom by Nicola Skinner*

Home Learning

- Create a poster discussing the keyways of reducing your carbon footprint.
- Explore your local area and notice the keyways that different parts of it could be more sustainable.
- Collect recycled materials and create a piece of artwork using the materials. Bring the artwork into school and tell us about it.
- Plant your own fruit/vegetables at home.

Key Words

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| • Adaptation | • Non-renewable | |
| • Climates | • Carbon Net | • Electricity |
| • Floods | • Zero | • Glazier |
| • Waterproof | • Imperatives | • Electrician |
| • Boathouses | • Eliminate | • Fully-functioning |
| • Sustainability | • Architect | • Conduction |
| • Resources | • Foundations | • Convection |
| • Thrive | • Interior | • Radiation |
| • Replenish | • Joinery | |

Core Knowledge

- Convection is the movement by which heat is transferred by a heated liquid such as air or water.
- Conduction is the process by which heat energy is transmitted through an object.
- Radiation is energy that comes from a source.
- Most houses and bungalows are brick or block wall construction. They usually have a sloping roof and solid or cavity walls.
- Sustainable technology helps to reduce the impact on the environment and reduce maintenance costs.