'Love your neighbour as yourself' (Luke 10: 27)

St. Bridget's C of E Primary Autumn Term Knowledge Organiser

Year 3 'Our Community: STEM'

Inspiring, nurturing and educating our children to serve God by reaching their full potential, serving our local community and by looking after our environment as global citizens of today and tomorrow.

Key Vocabulary & Information

- Global Goals
- Life on Land
- Levers
- Linkages
- Rainforest
- Canopy
- Understorey
- Emergent Layer
- Forest Floor
- Tropics
- Equator
- Climate Zones
- Photosynthesis
- Ecosystem
- Bio-diversity
- Habitats
- Biomes
- Hemisphere

Key Vocabulary & Information

- Mechanism
- Pivot
- Linear
- Rotary
- Slider
- Joint
- Prototype
- Deforestation
- Resurrection
- Salvation
- Saviour

Reading Opportunities

Reading Spine:

- **Kensuke's Kingdom by Michael Morpurgo**
- **The Great Kapok Tree By Lynne Cherry**

Other resources:

- Atlases
- Dictionaries
- Books about rainforests

Values explored

- Love Your Neighbour
- School Vision Statement
- Compassion
- Hope
- Love
- Resilience
- Friendship
- Creativity

Display Information/Questions

- **World Map**
- **Layers of the Rainforest**
- **Basic levers and linkages diagrams**
- **Jane Goodall photo and info**
- **Oak Tree Ecosystem**
- **James Dyson**

Learning Opportunities *(Sequential week teaching points or explicit opportunities planned)*

MAIN FOCUS: Global Goal 15 "Life on Land"
THEME OF KINDNESS for Lent

Week 1. What do you know about Rainforests? Geography: Tropics, Equator, Climate Zones, South America. Where are the rainforests? The layers of the rainforest. Looking at Plants & trees in Science. ACTIVE READING: Kensuke's Kingdom. RE: Ash Wednesday & Lent

Week 2. Literacy: Kensuke's Kingdom. Art: Draw a Toucan. RE: Looking to Easter. The Garden, the Curtain & the Cross.

Week 3. Mother's Day. Rainforest project. Biodiversity and ecosystems.

Week 4. The Easter Story. Writing Cycle: Jane Goodall biography. The importance of trees. Transpiration.

Week 5. Easter Experience. Writing Cycle: Jane Goodall biography.

Key Milestones

DT:
Use scientific knowledge of the transference of forces to choose appropriate mechanisms for a product (such as levers, winding mechanisms, pulleys and gears).
Improve upon existing designs, giving reasons for choices.
Disassemble products to understand how they work.
Design with purpose by identifying opportunities to design.
Refine work and techniques as work progresses, continually evaluating the product design.
Science:
Identify and describe the functions of different parts of flowering plants: roots, stem, leaves and flowers.
Explore the requirements of plants for life and growth (air, light, water, nutrients from soil, and room to grow) and how they vary from plant to plant.
Investigate the way in which water is transported within plants.
Explore the role of flowers in the life cycle of flowering plants, including pollination, seed formation and seed dispersal.
Geography:
Name and locate the Equator, Northern Hemisphere, Southern Hemisphere, the Tropics of Cancer and Capricorn, Arctic and Antarctic Circle and date time zones. Describe some of the characteristics of these geographical areas.