



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

St. Bridget's C of E Primary Spring 2 Term Knowledge Organiser

Year 2 '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 7, 11, 12, 13, 14, 15
- Mechanisms
- Promote
- Advertise
- Data analysis, graphs and measurement
- Scientist
- Technology
- Investigation
- Fair test

Reading Opportunities

The Twits by Roald Dahl
Charlie and Chocolate factory
The Magic Finger
Wolves

Values explored

- Love Your Neighbour
- School Vision Statement
- Welcome – celebrating Diversity & Inclusion, safe sanctuary
- Hope
- Love
- Resilience
- British Values: respect & tolerance
- Human Rights (UNCRC)
- Teamwork

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

Year 2 Priority -Creative writing due to collecting evidence for Year 2 expectations.

Week 1: Literacy- The Twits, writing descriptively about Mr and Mrs Twit Science- mouldy food investigation wormy spaghetti

Week 2: Literacy – The Twits, Mr Twit's beard role play, drama to feed into creative writing, Science- eye ball investigation(floating and sinking) PE- Gymnastics/athletics

Week 3: Literacy – The Twits design and write a new trick Science- results of mouldy food experiment sticky glue investigation PE-Gymnastics/athletics

Week 4: Literacy- The Twit plan sequel stories, PE Gymnastics

Week 5: Science-Studying seeds, seed investigation of different types. create and evaluate mechanism (Twit's car) in groups . Forces- Cars down a ramp, data handling for results distance travelled of cars.

Week 6: Literacy- Write own sequel story for The Twits Science-Life cycle of a plant (iPad app picollage for labelling),

Week 7 – Introduce Conservation project using Beatrix Potter Tales of Peter Rabbit

Display Information/Questions

Why do cars move, what do they need?

Key Milestones

Computing-Add text strings, show and hide objects and change the features of an object. Select sounds and control when they are heard, their duration and volume. Control when drawings appear and set the pen colour, size and shape.

Science-Ask simple questions. Observe closely, using simple equipment. Perform simple tests. Use observations and ideas to suggest answers to questions. Gather and record data to help in answering questions. *Notice and describe how things move, using simple comparisons such as faster and slower. Observe and name a variety of sources of light, including electric lights, flames and the Sun, explaining that we see things because light travels from them to our eyes. Compare how different things move. Observe and name a variety of sources of sound, noticing that we hear with our ears.*

History- Label time lines with words or phrases such as: past, present, older and newer.

DT-Cut materials safely using tools provided. Measure and mark out to the nearest centimetre. Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling). Demonstrate a range of joining techniques (such as gluing, hinges or combining materials to strengthen). Use materials to practise drilling, screwing, gluing and nailing materials to make and strengthen products. Create products using levers, wheels