

# YEAR 5 - AUTUMN 2

## HOW DO WE BEST SHARE OUR PLANET?

### Maths

#### How to Add Fractions

Same Denominators	Different Denominators
$\frac{1}{5} + \frac{3}{5}$	$\frac{7 \times 1}{7 \times 2} + \frac{3 \times 2}{7 \times 2}$
$\frac{1+3}{5} = \frac{4}{5}$	$\frac{7+6}{14} = \frac{13}{14}$



#### Fractions

- Find fractions equivalent to a unit fraction
- Find fractions equivalent to a non-unit fraction
- Recognise equivalent fractions
- Convert improper fractions to mixed numbers
- Convert mixed numbers to improper fractions
- Compare fractions less than 1
- Order fractions less than 1
- Compare and order fractions greater than 1
- Add and subtract fractions with the same denominator
- Add fractions within 1
- Add fractions with total greater than 1
- Add to a mixed number
- Add two mixed numbers
- Subtract fractions
- Subtract from a mixed number
- Subtract from a mixed number - breaking the whole
- Subtract two mixed numbers

### DT

#### Automata

- Explore the history of automata, identify the components and explain how the mechanism works.
- Create a design brief and sketch a design for the automata.
- Prepare the frame, measure accurately and safely cut the wood using a bench hook and hack saw.
- Accurately assemble the frame, gluing and strengthening the corners; measure cut and insert the axel.
- Explore the movement of cams and followers and select and install mechanism in the automata.
- Create the paper housing and decorate the automata.
- Present design and evaluate using the design criteria.



### PSHE

#### Valuing Difference



- Describe ways of making a friendship last in order to explain why friendships sometimes end.
- Rehearse active listening skills in order to demonstrate respectfulness in responding to others.
- Develop an understanding of discrimination and its injustice in order to consider how discriminatory behaviour can be challenged.
- Describe the benefits of living in a diverse society and having mutual respect for different faiths and beliefs.
- Understand that the information we see online is not always true or accurate.
- identify the consequences of positive and negative behaviour on ourselves and others.

### Science

#### Properties of materials

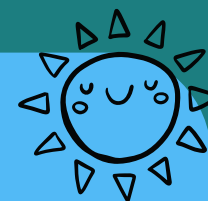
- Explore properties of materials
- Explore thermal conductors and thermal insulators
- Explore the hardness of materials
- Discover materials that are soluble in water
- Investigate the solubility of materials
- Explore how mixtures can be separated by filtering, sieving, evaporating or magnets



### Computing

#### Vector Drawings

- Identify that drawing tools can be used to produce different outcomes. Discuss how vector drawings are different from paper based drawings.
- Create a vector drawing by combining shapes and use a range of skills to support our drawing.
- Use a range of tools effectively when creating my vector drawing.
- Recognise that vector drawings consist of layers of objects and put this into practise when creating my own.
- Learn the skill of 'grouping' to use when creating my vector drawings.
- Apply all our learnt skills to create a vector drawing to showcase to the rest of the class.



### English

#### Texts

- The Green Planet
- A Home for Every Plant
- I Ate Sunshine for Breakfast

#### Spellings

- Soft c in statutory words
- Spelling ei after c
- word endings that sound like el
- cial and -tial endings
- cially and -tially word endings
- review Year 3/4 word list
- word ends able/ably and ible/ibly

#### Grammar & Writing

##### Non-chronological Reports

- complex sentences which include a relative clause, both with and without the relative pronoun
- Exclamatory sentences
- Sentences with lists of three
- Adverbials of place and number
- Subordinating conjunctions, e.g. whilst, until, despite
- Commas to clarify meaning or avoid ambiguity
- Formal and factual language
- Proper nouns and appropriate pronouns



### RE

#### Was Jesus the Messiah?

- To know where incarnation comes in 'The Big Story'.
- Explain the connections between Biblical texts, 'incarnation' and 'Messiah'.
- Begin to understand how Christians put their beliefs about Jesus' Incarnation into practice in different ways in celebrating Christmas.
- Consider how far the idea that Jesus is the Messiah – a Saviour from God – is important in the world today and, if it is true, what difference it might make in people's lives.



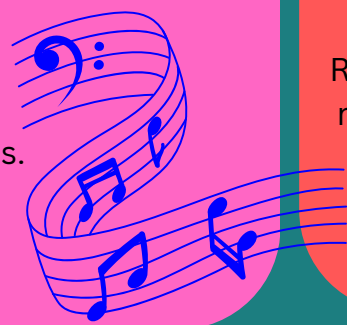
### Spanish

- Select the correct vocabulary to describe a person's hair and face.
- Read and translate a description of a portrait.
- Listen and select information from a short passages to give an appropriate response.
- Describe a portrait orally.
- Use a variety of language to describe both hair and facial features.
- Create a detailed written description of a portrait.



### Blues Music

- Understand the history of the Blues.
- Shining a light on Joan Armatrading.
- Play a chord.
- Understand and play the 12 bar blues.
- Play the blues scale.
- Improvise notes on the blues scale.



### Sport

#### Netball

- Refine passing and receiving. Develop defending and marking a player with the ball, participate in tactical play. Compete in a Level 1 tournament.

#### Gymnastics

- Rolls, balances, vault and ropes



### Geography

#### Oceans



- Explain the importance of our oceans.
- Locate and describe the significance of the Great Barrier Reef.
- Explain the impact humans have on coral reefs and oceans.
- Understand ways to keep our oceans healthy and begin planning a fieldwork enquiry.
- Collect data on the types of litter polluting a marine environment.
- Present, analyse and evaluate data collected.