

Y4 Who Pays The Price? Learning Sequence

Synopsis: Children investigate the water cycle, rivers and mountains and examine the problem of plastic pollution. They learn about and apply the skills of persuasive writing to write a David Attenborough-style voice-over for their own nature documentary.

In **Science**, children look at classification and changing environments.

In **Geography**, children find out about physical processes and features (water cycle, rivers and mountains).

In **Art**, children develop drawing techniques when designing their product (see D&T).

In **D&T**, children design a product that reuses plastic and/or a water filter for a developing country.

In **Computing**, children use digital literacy skills to create purposeful content for email.

Curriculum areas: English, Science, Geography, Art, D&T and Computing

Length of theme: 6 weeks

English

Write a persuasive voice-over for a nature documentary style video.

English Objectives

Comprehension

- Identify themes and conventions and summarise these accurately and concisely

Grammar & Punctuation

- Use a wider range of subordinating conjunctions (*before, after, while, when, if, because, although*) Y3
- Use fronted adverbials and use commas after fronted adverbials

Text Structure & Features

- Write for a range of purposes
- Build cohesion within a paragraph, choosing appropriate pronouns and nouns to avoid repetition
- Link ideas across paragraphs using adverbials of time, place and number or by varying tense
- Identify how language, structure, vocabulary, grammar and

English Learning Sequence

- Watch a video clip showing the devastation caused by the plastic pollution of our oceans. An example could be David Attenborough's *Blue Planet* series. What is your response? Generate ideas.
- Children debate plastic pollution, making a point and then developing it orally
- Watch again and magpie any key words or phrases that children feel are powerful eg destruction, catastrophic. Remind them that this is called emotive language
- Read and share further examples of charity appeals etc. that use emotive language to address the reader/viewer directly
- Expand word bank to include emotive language eg bad becomes devastating/catastrophic. Generate a bank of emotive words and phrases, ensuring children understand the meaning
- Introduce concept of AFOREST (see Resource Pack) as a technique for employing rhetorical devices ie to enhance an

<p>presentation contribute to meaning</p> <p>Plan, Draft, Edit & Evaluate</p> <ul style="list-style-type: none"> • Discuss and record ideas • Draw on examples of writing when planning own work • Compose and practise sentences orally using an increasingly wide range of vocabulary and sentence structure • Suggest changes to grammar and vocabulary • Proofread work for spelling/punctuation errors • Assess others' and own writing, suggesting improvements <p>In addition to the above, teachers should apply general spelling rules and guidance, as listed in English Appendix 1 and ensure concepts and skills outlined in English Appendix 2 are also addressed.</p>	<p>argument or persuade audience to take action (where possible, collate these from real examples eg websites about plastic pollution)</p> <ul style="list-style-type: none"> • Explore elements of AFOREST, making links to issue of plastic pollution in ocean. Allow children to experiment with these in isolation before applying to writing • Encourage children to consider cohesive devices to add, explain, contrast eg Due to the fact that ... However ... As a direct result of ... • Plan orally and then in writing a voiceover for a documentary style video, applying the AFOREST technique learned • Draft, edit and improve writing to produce final product
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English

Write a journalistic piece based on plastic pollution.

<p>English Objectives</p> <p>Comprehension</p> <ul style="list-style-type: none"> • Identify themes and conventions and summarise these accurately and concisely • Read books/texts that are structured in different ways and read for a range of purposes <p>Grammar & Punctuation</p> <ul style="list-style-type: none"> • Punctuate direct speech with inverted commas and other punctuation (for example, a comma after the reporting clause) • Use fronted adverbials • Use commas after fronted adverbials <p>Language & Vocabulary</p> <ul style="list-style-type: none"> • Broaden range of figurative language to include metaphors, personification and repetition <p>Text Structure & Feature</p>	<p>English Learning Sequence</p> <ul style="list-style-type: none"> • Collate examples of newspapers and newspaper articles about plastic pollution with children and discuss features. Explore the tone of language (formal) and examine type of language, looking for commonality • Summarise the conventions of newspaper writing – are they found in all newspapers or do some follow different conventions? • Discuss the issue of plastic pollution and why it is ‘newsworthy’ – global issue etc • Chop up articles into key parts and allow children to rearrange, label and annotate: headline, by-line, introduction, main article, quotes, pictures and captions. What is the function of each part? • Based on geographical work around plastic pollution, decide on their ‘angle’ – is the overall tone of article going to be positive or negative? What kind of language can we use to reflect tone? Who is the newspaper aimed at? Consider audience
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- Identify how language, structure, vocabulary, grammar and presentation contribute to meaning

Plan, Draft, Edit & Evaluate

- Discuss and record ideas
- Draw on examples of writing when planning own work
- Compose and practise sentences orally using an increasingly wide range of vocabulary and sentence structure
- Suggest changes to grammar and vocabulary
- Proofread work for spelling/punctuation errors
- Assess others' and own writing, suggesting improvements

In addition to the above, teachers should apply general spelling rules and guidance, as listed in [English Appendix 1](#) and ensure concepts and skills outlined in [English Appendix 2](#) are also addressed.

- Practise each newspaper feature in turn, writing headline, by-line, introduction (using the 5 W's of when, who, what, where and why) and main article. Focus on tone, language and level of formality
- Ensure children are using wider range of conjunctions to write more detailed sentences
- Use inverted commas to indicate direct quotes and develop understanding of the conventions of speech eg "This is a global emergency," reported Sir David Attenborough.
- Draft, edit and improve to produce final newspaper report

Science

Look at classification and changing environments.

Science Objectives

Working Scientifically

- Generate and answer scientific questions using evidence
- Select most appropriate types of scientific enquiry
- Gather, classify, record and present data in a wide variety of ways
- Report on findings orally and in writing using scientific language to answer questions
- Make systematic observations
- Use results to draw simple conclusions, make predictions and raise further questions
- Explain similarities, differences, changes related to scientific processes and ideas
- Suggest, set up and carry out simple practical enquiries
- Understand comparative and fair tests
- Confidently use range of equipment to measure accurately

Scientific Knowledge

Science Learning Sequence

- List all of the different living things that inhabit the ocean – how many can they think of? Use internet to create longer list
- Discuss how these could be grouped – generate responses
- Introduce key scientific vocabulary eg mammal, vertebrate, fish
- Sort and classify according to species fish, mammals, invertebrates etc.
- Explore classification keys (a series of questions about an organism's features) - what do they notice? How do classification keys work?
- Create a classification key for marine life
- Investigate which types of animal live in locality/micro-habitats and set up test to gather data on this
- With guidance, decide on how to collect and record data, selecting the most appropriate type of scientific enquiry

- Recognise that living things can be grouped in different ways
- Explore and use classification keys to help group, identify and name a variety of living things in the local and wider environment
- Recognise that environments can change and that this can sometimes pose dangers to living things
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature

- Gather data on living things found in local environment and use this to set up classification keys to group and identify each
- Use the results to draw conclusions and raise further questions
- Examine threats posed not only to oceans but to local environment eg paving over gardens and the impact on wildlife
- Create a campaign to raise awareness of local environmental issues, making reference to scientific understanding

Geography

Find out about physical processes and features (water cycle, rivers and mountains).

Geography Objectives

- **Locate more countries of Europe and N/S America using maps and identify environmental regions, key human/physical features including cities**
- **Explore how some aspects of physical and human characteristics have changed over time**
- **Describe and understand aspects of physical geography (water cycle, rivers, mountains)**
- **Describe and understand aspects of human geography (settlement/land use / economic activity and distribution of natural resources)**
- **Securely use world maps, atlases and globes and use digital mapping**
- **Begin to observe, record and present human/physical features of local area using maps, sketches, plans, graphs, digital technology**

Geography Learning Sequence

- Recap world's oceans and seas – can children identify and locate these?
- Consider where the water comes from. Generate responses.
- Introduce the water cycle. Give children images and key words with definitions. Can they label the diagram? Why is it called a 'cycle'?
- Children explain the water cycle using geographical language
- Link to rivers. Using range of atlases and maps, carry out an in-depth study of key rivers around the world, looking for similarities and differences
- Describe and understand key aspects of the physical geography of regions and their rivers, understanding key geographical vocabulary eg oxbow, meander, tributary
- Present findings in a variety of ways
- Focus on plastic pollution as an environmental issue that has affected oceans
- Explore this issue in detail and communicate findings in a range of ways

Develop drawing techniques when designing their product (see D&T).

Art Objectives

- Create sketchbooks to record and revisit observations
- In drawing, use a range of pencils and techniques to show effect, movement, perspective and reflection
- In digital media, use a range of tools to create images, video and sound recordings
- Use a range of artistic vocabulary to discuss and evaluate work
- Apply art and design techniques with creativity, experimentation and increasing awareness
- Draw on work of other artists for inspiration and begin to emulate their style
- Know about great artists, architects and designers and how their art/design reflected and shaped our history and contributed to the culture of our nation

Art Learning Sequence

- Recap drawing skills to date
- Discuss brief of creating packaging/branding for product made in D&T
- Look at examples of real products' branding and evaluate using artistic language
- Using real examples as inspiration, children work to create branding for product using range of pencils
- Translate this work into digital media, using chosen hardware/software to recreate image
- Use video and sound to create short ad for product, focusing on aesthetic qualities of branding to support key message

D&T

Design a product that reuses plastic and/or a water filter for a developing country.

D&T Objectives

- Take risks to become innovative and resourceful
- Communicate, generate and develop ideas using a range of strategies
- Use research to inform design and develop design criteria
- Select from and use a wider range of tools, equipment, materials and components accurately to make prototypes
- Evaluate and own and others' work, suggesting improvements and consider the views of others to improve their work
- Investigate a range of existing products in a range of relevant contexts

D&T Learning Sequence

- Investigate a range of products eg item made from recycled plastic or a water filter
- Explain that children are going to design and make a product linked water pollution eg it could be a simple water filter for developing country
- Research products to generate design criteria
- Communicate design in a range of ways and using a range of strategies
- Using chosen materials, tools and components, make, test, evaluate and adapt prototype of product
- Create final product (links to Art)
- Children could sell these to parents etc. to raise money for charity eg Water Aid

Computing

Use digital literacy skills to create email content for Water Aid.

Computing Objectives

- **Select and use a variety of software on digital devices**

Computing Learning Sequence

- Discuss use of emails
- Create purposeful content for an email to try and raise awareness of plastic pollution or campaign for Water Aid
- Review content