

Learning Project WEEK - Environment

Year 4

Weekly Maths Tasks	Weekly Reading Tasks
<ul style="list-style-type: none"> Have a go at the Zios and Zepts problem solving question below or see https://nrich.maths.org/1005 Have a go at the arithmetic paper on the website. You don't have to do it as a test but work through the questions together Can you convert from 12 hour clock to 24 hour clock? (See below). What rules or patterns can you see? How would you explain how to convert 12 hour time to 24 hour time to someone younger than you? 	<ul style="list-style-type: none"> Reading comprehension – Air pollution. Explore new vocabulary: Choose 3 of the following words (or find your own vocabulary linking to the environment). What are the origins of this word? Can it be modified? Can you use each in a sentence? <ul style="list-style-type: none"> - Pollutants - Geothermal - Renewable - Deforestation - Drought - Biodegradable Read a book on Epic Books. Discuss what you enjoyed about the book. Can you find and read a book about the environment?
Online Maths Tasks	Daily Reading
<p>Mathletics – Continue to have a go at the tasks set on here. This week will be focusing on. (3x a week)</p> <p>TT Rockstars – Make sure to have a go on Soundcheck at least once a day and help us in our weekly battle! (3x a week)</p>	<p>Make sure to read for 20 mins a day. Ask your child about what has happened, what their favourite part is, and what they think might happen next.</p> <p>Remember you can now use Epic Books to access to even more books! Check Accelerated Reader to see if you can take a quiz.</p>
Weekly Spelling Tasks	Weekly Writing Tasks
<ul style="list-style-type: none"> Practise your individual spelling lists on Spelling Shed (3x a week) Choose 5 common Exception Words and practise spelling them using a pyramid or diamond. <p style="text-align: center;"> B Ba Bat Bath </p> Choose 5 Common Exception words and write synonyms, antonyms, the meaning and an example of how to use the word in a sentence. Can the word be modified? 	<ul style="list-style-type: none"> Draw a scientific diagram of the water cycle and write an explanation text to explain how it works. Design a poster that expresses the importance of recycling, not dropping litter or another UK environmental issue. Can you think of a catchy slogan to accompany their design? Write a persuasive letter to your teacher or headteacher about an environment initiative or charity you think the school should support (E.g. recycling programs, tree plantings etc) and why.

Learning Project - to be done throughout the week

The project this week is based on the Environment.

- **Science**

Can you create a water filter? What materials do you think would filter water the best? If you need help thinking of how you can create a water filter see <https://www.fizzicseducation.com.au/150-science-experiments/biology-environmental-science-projects/create-a-water-filter/> and/or the instructions below.

- **Art** – Using recycled materials design and make a recycling mascot to spread the word about the importance and need to recycle. Think about what it is going to look like? What materials can you use? How can you join the materials? Be creative!

Music – Can you make a musical instrument out of recycled materials? (E.g. Shoe box guitar).

- **Geography**

What is the weather like around the world? Which countries are most likely to have a snowstorm, torrential rain, heatwaves etc? Find out about a natural disaster such as forest fires, earthquakes, tsunamis, hurricanes, floods, tornados etc. How is climate change having an effect on the weather and natural disasters?



- **Time to Talk:**

Discuss environment issues in the UK. Air pollution, climate change, litter, waste, and soil contamination are all examples of human activity that have an impact in the UK. What are global environment issues?



Additional learning resources parents may wish to engage with

Classroom Secrets Learning Packs - These packs are split into different year groups and include activities linked to reading, writing, maths and practical ideas you can do around the home. <https://classroomsecrets.co.uk/home-online-learning/>

Twinkl - to access these resources click on the link and sign up using your own email address and creating your own password. Use the offer code UKTWINKLHELPS.

DuoLingo – A great learning site with free access where the children can keep up with their Spanish learning from Mr Pinto. www.duolingo.com

Top Marks – Some great Maths games for all ages, that you can play online. <https://www.topmarks.co.uk/>

Audible – All children's books are free to listen to during school closure. <https://stories.audible.com/start-listen>

BBC Daily Lessons – The BBC have created a series of daily lessons in all subjects that you can use to learn more. <https://www.bbc.co.uk/bitesize/dailylessons>

How to make a water filter

You will need:

Three plastic cups

Two water bottles (to run two different versions)

Scissors

A rubber band

Old stocking material (or Kitchen cleaning wipe)

Sand and gravel with material of different sizes

Water and dirt

Copyright



Instruction



1

Make a cup of dirty water and set to one side.



2

Cut the bottom third off each end of the water bottles.



3

Using the rubber band, tie a piece of cut stocking or kitchen wipe onto the opening of the water bottles. Make this fairly strong as it will need to hold the weight of the sand and gravel.



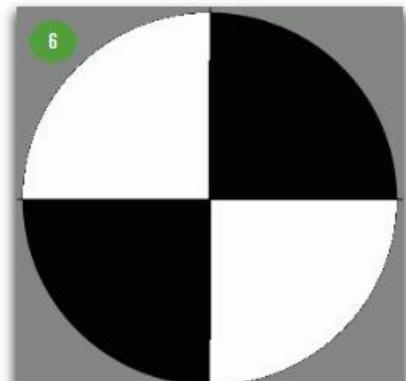
4

In one water bottle add sand first and then gravel, in the other bottle put the gravel in first and then the sand. The idea is to see if the order of filtering materials makes a difference to how well the water is filtered... all about variable testing!



5

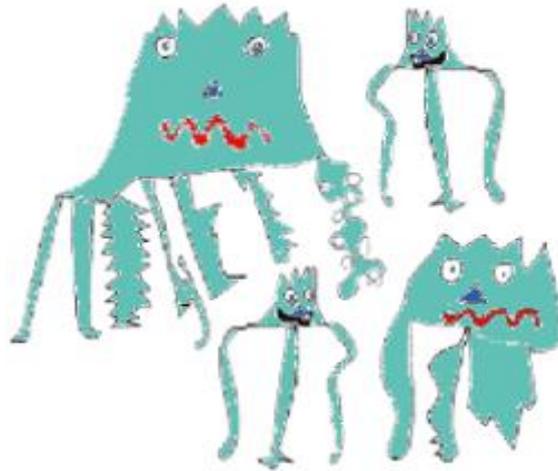
Balance each of the two bottle upside-down in the remaining cups. Pour the dirty water into each water bottle and see how well the dirty water gets filtered!



6

You could test how well you've filtered water using a secchi disc (full instructions here).

On the planet Vuv there are two sorts of creatures. The Zios have 3 legs and the Zepts have 7 legs.



The great planetary explorer Nico, who first discovered the planet, saw a crowd of Zios and Zepts. He managed to see that there was more than one of each kind of creature before they saw him. Suddenly they all rolled over onto their backs and put their legs in the air.

He counted 52 legs. How many Zios and how many Zepts were there? Do you think there are any different answers?

12-Hour Time	24-Hour Time
2:15 a.m.	
5:30 a.m.	
9:00 a.m.	
11:15 a.m.	
6:30 a.m.	
9:45 a.m.	
11:30 a.m.	
10:00 a.m.	
8:15 a.m.	
1:30 a.m.	
2:45 a.m.	