

St. Joseph's Topic Challenge

Year 3 Summer Term 2

Our topics this half term are 'Light' (Science), 'Global Citizenship' (Geography) and a study of the 'Great Wave' painting by Japanese artist Hokusai (Art). To compliment these topics, we ask that you choose from and complete tasks from the menu below.

The heat-ometer suggests the difficulty or challenge the tasks may offer. You should attempt **at least one 'Extra Hot'** task this half term. Try and complete a total of **4 tasks** (or more if you like) from the take away menu **two** linked to **Science**, one linked to **Geography** and one linked to **Art**.

I would love to see some photos of your completed tasks. Please ask your parents to email them into: info@st-jo-st.dudley.sch.uk

I look forward to seeing all of your amazing work. Have fun! Love from Miss Robertson ☺

See pictures/ links below for some ideas ☺



<p>Look at Hokusai's 'Great Wave' painting. Create your own version of this famous painting. Use the ideas below to help you.</p>	<p>Design and make a shadow puppet. You might like to perform a puppet show too. Write a set of clear instructions for how to make it.</p>	<p>Design your own 'sustainable' city (use the links below to help you). Think about ways you could make your city less harmful to the environment.</p>
<p>Make up a 'why do we recycle quiz' for your family and friends. How tricky can you make the questions? Use this website to help you: https://www.bbc.co.uk/cbbc/quizzes/bp-test-your-recycling-knowledge</p>	<p>Find an item of rubbish in your house (e.g. plastic bottle, milk carton, tin can, etc.) Upcycle your item into something new that can be used around the house. (Use the pictures below for some inspiration).</p>	<p>Research what a sundial is. Make your own sundial. Set it up outside and evaluate how well it works. (Use the ideas on the next page to help you)</p>
<p>Research what a global citizen is (use the links below to help you). Create a poster/ leaflet about how to be a good global citizen.</p>	<p>Make a human sundial. Find a large space in your garden/drive/outside. Ask a sibling/adult to draw around your shadow at different times of the day using chalk. Investigate what happens to your shadow throughout the day. You might like to show this using pictures.</p>	<p>Write an adventure story about all the adventures a plastic bottle has on its way to the recycling centre. Think about all the places it could end up and the problems it may come across before it is recycled. 'The adventures of Polly Purple Fruit Shoot' could be an idea for the title of your adventure story. (Use the link below to help you).</p>
<p>Search for different light sources around your home. Draw and label them. Decide whether they are natural or man made.</p>	<p>Make a fact file about Hokusai. Include facts about his life, where he was born, what inspired his paintings, etc.</p>	<p>Use a torch, or another light source, to create different shadows at home. What shapes can you make? Can you change the shape and size of your shadows? If so how did you make the shadow bigger / smaller? Answer all these questions.</p>

St. Joseph's Topic Challenge
Year 3 Summer Term 2

Useful Art websites about Hokusai's life:

<https://primaryfacts.com/4815/katsushika-hokusai-facts-and-information/>

https://kids.kiddle.co/Katsushika_Hokusai

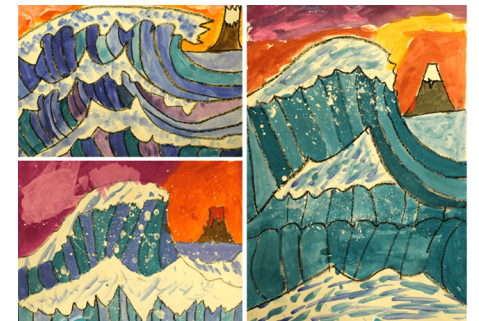
Useful websites to help with painting 'The Great Wave':

<https://www.deepspacesparkle.com/the-great-wave-art-project/>

https://kids.kiddle.co/The_Great_Wave_off_Kanagawa

<https://vesart.weebly.com/the-great-wave-project.html>

<https://www.youtube.com/watch?v=p9X07N18BcM>



St. Joseph's Topic Challenge Year 3 Summer Term 2

Useful geography websites:

Life of a plastic bottle

https://www.youtube.com/watch?time_continue=91&v=erGnf7ws20E&feature=emb_logo

What is global citizenship?

<https://www.oxfam.org.uk/education/who-we-are/what-is-global-citizenship>

<https://www.youtube.com/watch?v=LZgkCLZVIHo>

<https://www.youtube.com/watch?v=tPdtGrnj7sU>

https://www.youtube.com/watch?v=OasbYWF4_S8

Design your own sustainable city:

<https://www.sustainablelearning.com/resource/my-green-city>

Upcycled household items:

<https://www.mnn.com/lifestyle/arts-culture/stories/10-creative-ways-upcycle-your-plastic-bottles>

<https://www.budgetdumpster.com/blog/diy-plastic-bottles-recycling/>



St. Joseph's Topic Challenge
Year 3 Summer Term 2

Useful Science websites:

Please have a look at the activities and learn screens on Education City in the 'Light Science Topic' folder ☺.

Light sources:

<https://www.bbc.co.uk/bitesize/clips/zjkc87h>

<https://www.bbc.co.uk/bitesize/clips/zg6r82p>

Make a sundial:

<https://www.wikihow.com/Make-a-Sundial>

Make a human sundial experiment:

<https://rhythmsofplay.com/human-sundial-shadow-science-experiment/>

How to make your own shadow puppet theatre:

<https://www.youtube.com/watch?v=-hL285kHf1g>



Sundial Activity

This experiment only works on a sunny day!

You will need:

- sundial gnomon
- white piece of card
- scissors
- sticky tape
- ruler
- black felt tip



What to do:

1. Cut the gnomon out.
2. Using sticky tape, stick the gnomon in the middle of the piece of card.
3. Put the sundial in a place that will be in the sun all day. A table or raised area works best as the sundial must not be moved all day.
4. On each hour of the day, use the ruler and pen to draw a line where the shadow falls. Mark the time of each line.

Use the words in the box to fill in the spaces.

revolve	24 hours	rotation
---------	----------	----------

A sundial works because of the of the _____ earth. The earth rotates once every _____ Although it looks like the sun is moving, this is because of the earth's rotation. The sun doesn't rotate or _____.

What time was the shadow of the sundial shortest? Why do you think this?

