Home Learning Introduction: Topic 3(b)

We hope you are all keeping safe and well. The following activities are based around the theme of **Earth, Wind, Fire and Water**. As there is a lot in this topic the next week will be a continuation. These may be of help to you, particularly if you are trying to manage several children's needs or have limited access to the Internet.

Page 1: activities – no IT needed

Page 2: web links - if you have internet access and some extension

The most important thing is that you are calm for your children and should only do whatever you can manage. Remember that children also learn a lot through play such as Lego and playing games and even through chores such as helping to prepare a meal. Great learning can happen when it's not always adult directed.

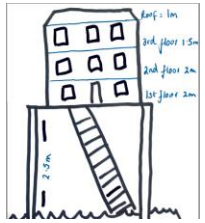
The following help with alleviating stress:

- Connect with others – arrange a time for your children to connect with friends (and you too!)
- Exercise
- Do things you all enjoy together
- Don't focus too much on the news
- Share and talk about feelings – all feelings are okay!

Hackney

Maths

Don't get flooded!
Some houses by water are built on stilts to protect them when the water rises.
Can you work out this out?
The water rises by 10 cms every 10 minutes. How many minutes/hrs would it take to reach:
The top of the house stilts = 2.5 metres
The 1st then 2nd floor = both 2m
3rd floor =1.5 m
The roof = 1 m
How long in total?



What happens if every hour double the amount of water rises?

Wild winds!
Wind is measured using the Beaufort scale. The higher the number the more dangerous the wind.
The speed of wind is measured in MPH (miles/hour)
Have a look at these wind speeds:
***A**: 66 Mph*
***B**: 24 Mph*
***C**: 78 Mph*
***D**: 14 Mph*
***E**: 190 Mph*
Put them in order of strongest to weakest.
If it is Hurricane, it is 12 on the Beaufort Scale so the wind is more than 74 Mph. Which of these storms was a hurricane?
Can you work out the average speed?

How much water?
Collect together any measuring equipment you have in the kitchen e.g. jugs, scales, thermometers. What scales do they use – do they go up in 10s, 100s, 1000s?
Find 4 different containers. Fill them up and estimate how much there is. Pour into the jug, were you right?

Use your jug to make a milkshake or smoothie
How many ways ...
could we mix sea water and fresh water to get 10ml of water in total?
e.g. 1 ml sea + 9ml fresh
What about if we wanted 20, 100, 1000ml?

Humanities

Gods and Goddesses
Many ancient civilisation had gods and goddesses , including the Aztecs, Ancient Egyptians, Ancient Greeks and the Romans.
They often explain how things came to be e.g. fire, water and wind.
Can you design a god or goddess for Wind, Fire, Water or Earth?
What will they be called?
Draw them and make them reflect the element they are e.g. flames for hair etc.
What powers or personality will they have? Make sure they are holding something to show their power.

Can you find out about these: Who was ...
The Egyptian god of fire?
The Roman god of Fire?
The Greek god of water?
The Aztec God of Fire?
What goddesses can you find out about?

Overseas and across the Earth!
In history people explored the world by going overseas and land. As the UK is an Island lots of our invaders came by boats. Vikings were famous for exploring the world by sailing overseas in their boats called Long ships.
The Vikings boat had to be:
Fast and light - for a quick getaway!
Shallow – to sail up rivers and well as overseas,

They had a carved figure head that could be put on to scare people as they came ashore!
Design you own Viking long ship and see if it can float!
Don't forget you figurehead!

What lives in water?
Find pictures or draw pictures of animals that live in water?
Which animals might you see near your home?

Natural disasters
In Bangladesh they have built some houses on stilts to save them from floods.
Can you design a house that would help with floods, fire, tornadoes or earthquakes.
What features would it have? Draw and label it. You could even try to make it!
The ancient Egyptians loved it when the Nile river flooded – find out why!
How well do you know planet earth? What is/are:
1. The longest river?
2. The deepest ocean? lake?
3. The 2 highest mountains?4. The largest desert?
5. The tallest volcano?
Research challenge: Where are earthquakes/volcanoes most likely to happen?

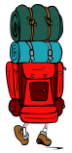
Answers:
1. The Nile 2.Pacific. Baikal 3.Everest, K2. 4. Sahara 5. Mauna Kea, Hawaii.

Literacy

How do we know?
The Great Fire of London happened in 1666. Lots of information about what happened came from a Diary written by Samuel Pepys.
Imagine you have experienced one of the natural disasters that have happened around the world: The Australian Bush fires or The Mississippi Tornadoes.
Can you write a diary for a few days witnessing what you felt and what you saw?
How did you keep safe?

You could also keep a diary about your experiences now...

Where on earth?
Imagine you can go on a world trip. Plan out your journey, including all the countries members of your family have always wanted to visit.
How long will you spend in each place and what will you see there?
Make a list of what you will need to pack.
Can you choose 1 place and write a postcard to your friend back in the UK – what did you do and see? What was the weather like?
Make sure you have a picture of the front!



What is it like to be water? A day in the life of a drop of water...
Imagine you are a drop of water and make a comic strip about your day. What kind of water are you: a raindrop, thunderstorm, sea spray, from the tap or shower? What happened to you? Where do you go? How do you feel? Are you fast moving or slow moving?
Are you happy or sad about being a water drop? Do you have friends? What adventures do you go on?
Remember that comic strips tell the story through pictures and speech bubbles and 1 line description.

Topic 3(b): Earth, Wind, Fire and Water
Home Learning

Hackney

Wellbeing, PSHE and Philosophy for Children:
We need water, earth, wind and fire to survive in this world:
Why are these 4 elements important? Why do we need them to survive?
Could we live without one?
However sometimes extremes can be dangerous
How do you think people feel who live in countries that are at risk of floods, volcanic eruptions, earthquakes, hurricanes, tornadoes and tsunamis?
Why should we care about this happening to other people in the world?
What can we do to support and help other people experiencing these natural disasters?

Things to practice/do every day
Reading, phonics/spellings, times tables, number bonds

Science

Don't let the ice melt!
Put two ice cubes in 4 different bowls but choose 4 different coverings to wrap the ice-cubes in e.g. material, plastic, newspaper, foil.
Which one will melt first?
Check every 5 minutes.
Freeze race!
Fill an ice cube tray with water and another with water with salt added. Put in the freezer and check every ten minutes to see which freezes first. Which do you think it will be and why? Why do we use salt on the ground in the winter?
Expand!
What happens when water freezes? Fill a plastic water bottle or container with water, marking the level. Take out of the freezer after 3 hours? What has happened?

Write instructions for these experiments using diagrams.

Tornado in a bottle
You will need:
an empty bottle – try to find one that is tall and thin with a lid!
Some washing up liquid, glitter food colouring (optional)
Fill the bottle up 3/4 with water,
Put in 2 squirts of washing up liquid,
Put in glitter food colouring.
Put the top on VERY tightly!
Hold it at the bottom or top and swirl the water around using your wrist in a circular motion – can you see your tornado?
Try using smaller or bigger bottles and varying the amount of washing up liquid!
Water Cycle in a bag
Take a clean plastic sandwich bag. Carefully pour some water into it, so it is a third full.
Seal it and tape it to a window that gets the sun.
Watch what happens inside the bag when the sun is shining on the window. Can you explain this?

Puff Mobile!
Create a puff mobile that can be powered by your wind (your breath!)
Find 3/4 rounds things for wheels (beads/CDs/bottle tops/polos!) They might need to be the same size.
Find some sticks or straws to be the frame of your car.
Find something that can be a sail – decide what shape will be best to make it go straight and fast!
Keep testing to make sure it can move and then...
Find a smooth surface e.g. table and try and move it only using your breath! How far did it go?
Could you make another one and have a race?

It could be a boat too!
Make your longship into a puff boat!

Creative Arts

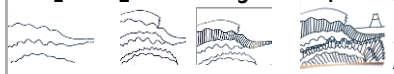
Make a fan!
On a hot day a little bit of wind can cool you down. You can make fans to move the air.
Get a rectangle of paper e.g. wrapping paper, newspaper or plain paper you decorate. Fold the paper forward and backwards in 2 cm folds. When finished fold the bottom up for a handle. You could add some decoration to the handle.

Making a model of a volcano
Fill a container with water – use half a big plastic bottle or old jam jar stood on a tray. Add in 4-5 tbs of baking Soda, 1 tsp washing up liquid and 5-6 drops of food colouring.

Now add in 8 oz (1 cup) vinegar and step back!
You can make the volcano out of playdough or card if you like!

Under the Great Wave of Kanagawa by Katsushika Hokusai This is a Japanese Print.

1) Take a white piece of paper and then draw 3 wavy/jagged lines across the page.
2) Add in the white caps of the waves above by drawing a line on top of each first line this stops halfway along your first line.
3) Put vertical stripes or patterns on each wave. Remember to leave the alternate stripes plain. Add a horizon line and Mount Fuji. Then colour the waves in colors of the sea!



Topic 3(b): Earth, Wind, Fire and Water

These are links to websites – please practise Internet safety with your children whilst accessing these websites. Hackney

Useful websites for parents and carers:	1. In response to the coronavirus lockdown and backed by the Government, **The Oak National Academy** website is a new collection of high-quality lessons and online resources. For more information for parents and carers: https://www.thenational.academy/information-for-parents-pupils/ 2. The **National Education Union** has published a new website for providing advice, latest news and resources for parents and carers on the Coronavirus crisis: https://coronavirusandschools.org.uk/advice/ 3. **Young Hackney Online Hub** is now live Monday - Friday, 3-5pm. There are Junior sessions for ages 6-12 and senior sessions ages 13-19. Support is also available over the phone for young people with SEND and young carers and their parents: https://www.younghackney.org/campaign/online-youth-hub/ 3. The **BBC** have now launched daily online lessons via **Bitesize,** with videos and activities: https://www.bbc.co.uk/bitesize
Films and TV shows	Frozen, Wall-E, Planes: Fire & Rescue, The Little Mermaid, Finding Nemo and Finding Dory, Shark Tale ,Moana **LetsGoLive website:** Extreme Earth series episodes 19 – 23
Websites	https://learning-center.homesciencetools.com/article/four-elements-science/ https://corporate.thameswater.co.uk/about-us/community/schools/classroom-resources/primary-school
Places to visit and museums	National Emergency Museum https://www.visitnesm.org.uk/homeactivities London Fire Brigade: https://www.london-fire.gov.uk/museum/ London Museum of Water and Steam https://waterandsteam.org.uk/at-home-activities/ National Waterways Museum https://canalrivertrust.org.uk/places-to-visit/national-waterways-museum/virtual-tour-of-the-national-waterways-museum

Wellbeing and PSHE

The power of Kindness: https://www.redcross.org.uk/get-involved/teaching-resources/kindness-calendar
https://youngminds.org.uk/
https://www.annafreud.org/what-we-do/anna-freud-learning-network/covid-19-support-our-tips-for-families-children-and-young-people-and-professionals/

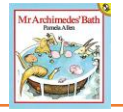
Religious Education

KS1: Baptism with water
When Christians join the church they are baptised with water. What items are needed for a baby baptism? What promises are made and by who? Why do they use water?
KS2: Miracles with water
Miracles are events that some people believe are caused/made by God. How many miracle stories with water can you find in the Bible?
Can you explain which of the 99 of names of Allah these water miracles reflect? How do they show the belief in God as 'omnipotent'?

Literacy

Samuel Pepys: https://www.bbc.co.uk/bitesize/topics/z7d7gwx/articles/zhgxcqt
Australian Bushfires: https://www.bbc.co.uk/newsround/51084438
https://www.bbc.co.uk/newsround/24879162
Drop of water https://www.youtube.com/watch?v=5Ug1hravb9Q
https://www.storyboardthat.com/storyboards/winner_7/water-cycle-comic-strip
How to write a comic strip https://www.imagineforest.com/blog/how-to-create-a-comic-strip/

Books

EYFS N and R	Blown Away: *Rod Biddulph* 	Mr Achimedes Bath: *Pamela Allen* 	Hey Water: *Antoinette Portis* 
KS1 Y1-Y2	Lila and the secret of Rain: *David Conway, Jude Dal* Once upon a raindrop: *James Carter*  	Fabio the World's Greatest Flamingo Detective: Peril at Lizard Lake: *Laura James* 	Kite but *Kites: Simon Mole, Oama Lu* 
KS2 Y3-Y6	The Firework Makers Daughter: *Philip Pullman* Floodworld: *Tom Huddleston*  	Adventures n Earth: *Simon Tyler* 	*Earth Heroes: Lily Dyu* 

Maths

https://www.ictgames.com/mobilePage/smoothie/index.html
Practise your number bonds and make a smoothie!
https://www.bbc.co.uk/bitesize/guides/zw9qtfr/revision/2
https://www.bbc.co.uk/bitesize/clips/z9g87ty

Answers: E, C, B, D, A
E and C are hurricanes
Average speed = 74.4 MPH

Answers:
Stilts =250 mins/ 4 hrs 10 mins
1st floor =200 mins / 3hrs 20 mins
2nd floor = 200 mins / 3hrs 20 mins
3rd floor = 150 mins/ 2hrs 30 mins
Roof = 100 mins/ 1hr 40 mins
Total time = 15 hours

Science

Freezing and melting
https://www.bbc.co.uk/bitesize/clips/zpvfb9q
Tornado in a bottle:
https://www.bbc.co.uk/cbbc/watch/how-to-make-a-tornado-in-a-bottle-experiment
Watercycle
https://www.bbc.co.uk/bitesize/topics/zkgg87h/articles/https://www.natgeokids.com/uk/discover/science/nature/water-cycle/z3wpp39
Puff mobile
https://www.pbslearningmedia.org/resource/phy03.sci.phys.mfe.zpuffm/designing-a-puff-mobile/

Humanities

History:
https://www.bbc.co.uk/bitesize/topics/zqtf34j/articles/z9j4kqt
https://www.bbc.co.uk/history/handsonhistory/vikings.shtml
https://www.bbc.co.uk/bitesize/clips/zgmxpv4
https://www.bbc.co.uk/bitesize/clips/zv2mhyc
https://www.dkfindout.com/uk/history/vikings/viking-longship/

Geography – researching around the world:
https://www.dkfindout.com/uk/earth/earthquakes/where-do-earthquakes-happen/
https://www.kids-world-travel-guide.com/geography-facts.html
RE links:
https://www.bbc.co.uk/bitesize/clips/zr34wmn
https://www.pinterest.co.uk/pin/161854983995058 4/
http://www.dltk-bible.com/cv/jesus_is_baptized-cv.htm

KS2: Genesis chapters 6-9, Exodus, Matthew 14:22-33, John 2:1-4
https://simple.wikipedia.org/wiki/Names_of_God_in_Islam
https://www.biblegateway.com/
https://www.youtube.com/watch?v=TzRrEgkfhG8

Creative Arts

Make a fan:
https://thecraftyclassroom.com/crafts/japan-crafts-for-kids/japan-fan-craft/
http://krokotak.com/2013/04/japanese-paper-fans/
Art: The Great Wave
https://www.metmuseum.org/art/collection/search/45434
https://www.khanacademy.org/humanities/ap-art-history/south-east-se-asia/japan-art/a/hokusai-under-the-wave-off-kanagawa-the-great-wave
https://www.deepspacesparkle.com/the-great-wave-art-lesson-plan-video/
Making a volcano model: https://www.nhm.ac.uk/discover/how-to-make-a-volcano.html
https://www.wikihow.com/Make-a-Clay-Volcano

Spanish
https://www.youtube.com/watch?v=U7W5oKx6g2I&vl=en
https://www.youtube.com/watch?v=pewoNVDfvik