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January 2021 – Spring Term

#SolveItWithSTEM@Home

Infant and Primary Activity Pack

Friday 22nd January 2021

Hi Everyone!

Hello everyone and welcome to this week's pack.
As you can see...I am in a bit of a pickle at the moment –
I'm caught in a **whirlwind!**

Do you know what a whirlwind is?
It's a column of air moving rapidly round and round in a
funnel shape. If the whirlwind is connected from the
cloud above and the ground below...it becomes a
tornado!...

...this moves me nicely into the theme of the week. This week
we will be concentrating on the **Weather and the Earth!**

Weather doesn't just stay in one place – it moves and
changes all the time. Sometimes you will have to change
what you are doing during your day because of the weather.

Enjoy the following activities and remember to share these
packs with your family and friends online – just visit
www.fawleyonline.org.uk

See you soon...**Eddie**



Activity: Who said that?

Polar habitats cover the top and bottom of planet Earth at the North and South Poles.

The **North Pole** is surrounded by the Arctic Ocean - there isn't any land, just a group of continually shifting ice sheets. Parts of Canada and Greenland are near the North Pole. The **South Pole** is located on Antarctica - this area has land, but it's completely covered with a layer of ice that's almost three miles thick in some places.

Many animals live at either the North or South Pole and have to adapt to the harsh winds and freezing temperatures. A few animals have popped by to say hello...can you guess who they are from how they have adapted to the climate?

"Hi there! You may see me swimming around the Arctic waters with my very large paws. They are slightly webbed so I can paddle! I have a white coat so I can hide from the prey I am stalking on the snow and ice. I have thick layers of fat and fur to keep me insulated against the cold."

Who am I?

.....
Which pole do I live on?
.....

"Good day to you - I huddle with my friends to escape the wind and to keep me warm. We take it in turns to protect the group. When I was an egg, my father would balance me on his feet and cover me with feathered skin to protect me from the elements. He did this for two months!"

Who am I?

.....
Which pole do I live on?
.....

"Hello everybody...you may recognise me with wrinkled brown and pink skin. I have long whiskers which are very sensitive and help me find my favourite meals underwater. I have lots of blubber on my body which keeps me warm in the cold Arctic water. I have amazingly long tusks that help me break breathing holes into the ice from below."

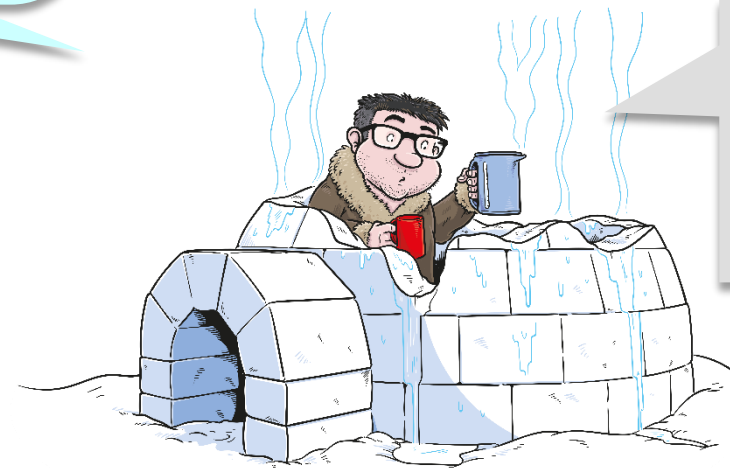
Who am I?

.....
Which pole do I live on?
.....

"Hey, nice to meet you. My beautiful coat acts as effective winter camouflage, letting me hide from predators. When the seasons change, my coat changes to brown/grey. My thick tail helps me balance but it also provides a warm cover in the colder months."

Who am I?

.....
Which pole do I live on?
.....



If you need some help, why not visit these websites...

- [National Geographic - Animals](#)
- [BBC Bitesize Habitats](#)
- [Kids National Geographic 1](#)
- [Kids National Geographic 2](#)

Experiment: Cloud Science

(Make sure you have an adult help you with this activity)

Items Required:

- Large glass jar or vase
- Water
- Shaving cream
- Blue food colouring
- Plastic pipette

Instructions:

- Fill the glass jar about $\frac{3}{4}$ full of cool water.
- Fill the rest of the jar with white foamy shaving cream.
- In a separate bowl, mix some water and food colouring.
- Use the plastic pipette and start dropping the coloured water into the shaving cream.
- Watch the cloud hold the coloured water until it becomes too heavy and the coloured water starts to rain!

Looking out your window...how many clouds can you spot?

This experiment shows how clouds hold invisible water vapours that turn into rain when the warm and cool air condenses the water vapours into rain. The shaving cream clouds represent the clouds and how they can hold the water vapours for so long, until the cloud becomes heavy and “drops” the water – rain.



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This experiment was taken from
thestemlaboratory.com ...why not check it out!

Maths: Weather and Time

If it started raining at 12:00pm (noon) and it has been forecasted to rain for two hours, how long will it rain for? (Circle your answer)

A) 120 minutes

B) 120 hours

C) 120 seconds

Match the times.

3 days of sunshine is...

300 minutes

5 hours of hailstorms is...

120 seconds

2 minutes of strong winds is...

72 hours

If the sun was predicted to rise at 07:30am on Tuesday morning and predicted to set at 18:45pm in the evening – how long is the sun in the sky? (hours and minutes)

The answers will be provided in next week's pack...

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Answers: w/e 15th January 2021 STEM Pack

Activity (Page 3) – What can you recycle in each room?

- Bathroom: Toilet roll tubes, plastic shampoo bottles, bleach bottles, shower gel containers
- Kitchen: Washing up liquid bottles, dishwasher tablet box, furniture polish aerosol tin
- Living/bedroom: Old magazines, hairspray aerosol tin, cardboard packaging from online shopping

Please visit www.recyclenow.com for more information

Maths (Page 5) – Recycling addition problems

1. $25 + 20 = 45$ – they have 45 bottles available for recycling
2. $42 + 23 = 65$ – they were able to collect 65 newspapers together
3. $34 + 15 = 49$ – 49 tin foil wrappers were gathered in total
4. $26 + 37 = 63$ – the total number of pen holders made was 63
5. $65 + 28 = 93$ – they will be able to sell 93 recycled products at the fair

These questions were taken from [Oasis Academy Woodview activity sheets](#)

We hope you enjoyed this week's activities.

Another pack will be on its way to you next week...

Best wishes

The ExxonMobil Fawley #SolveItWithSTEM Team!

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