

ExxonMobil

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June 2020

Week 11 #SolveItWithSTEM@Home

Colouring and Experiment Pack

featuring Alice the STEM Guru

Remember everyone needs to take breaks from school or work.

Take some time to relax and make time for a refreshing drink or snack!

**Hello everyone, we have reached Week 11!
How's it going?
Don't forget on pages 2 and 3, you can colour-in Alice.**

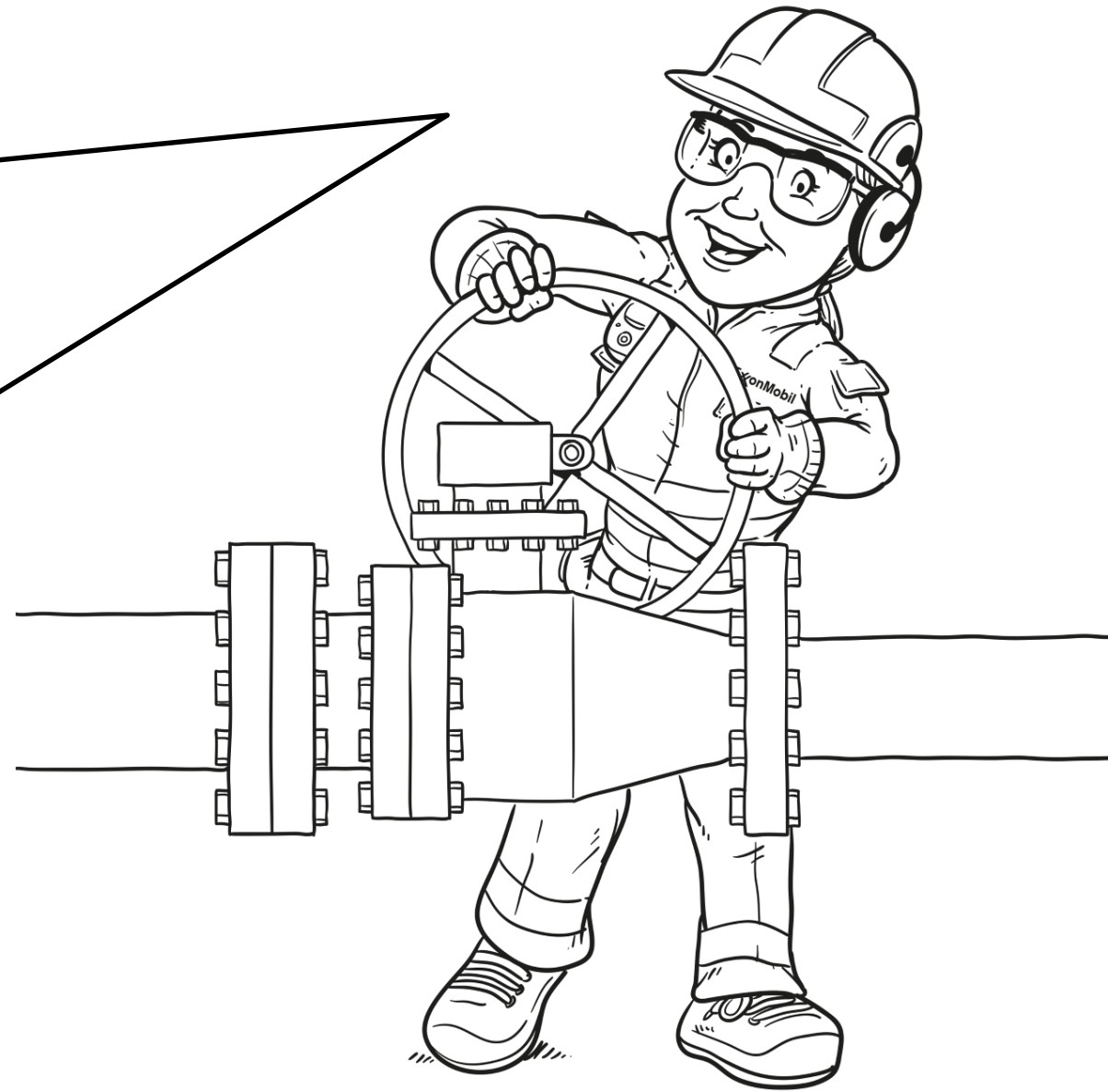


The wheel on the pipe
goes round and round,
round and round,
round and round

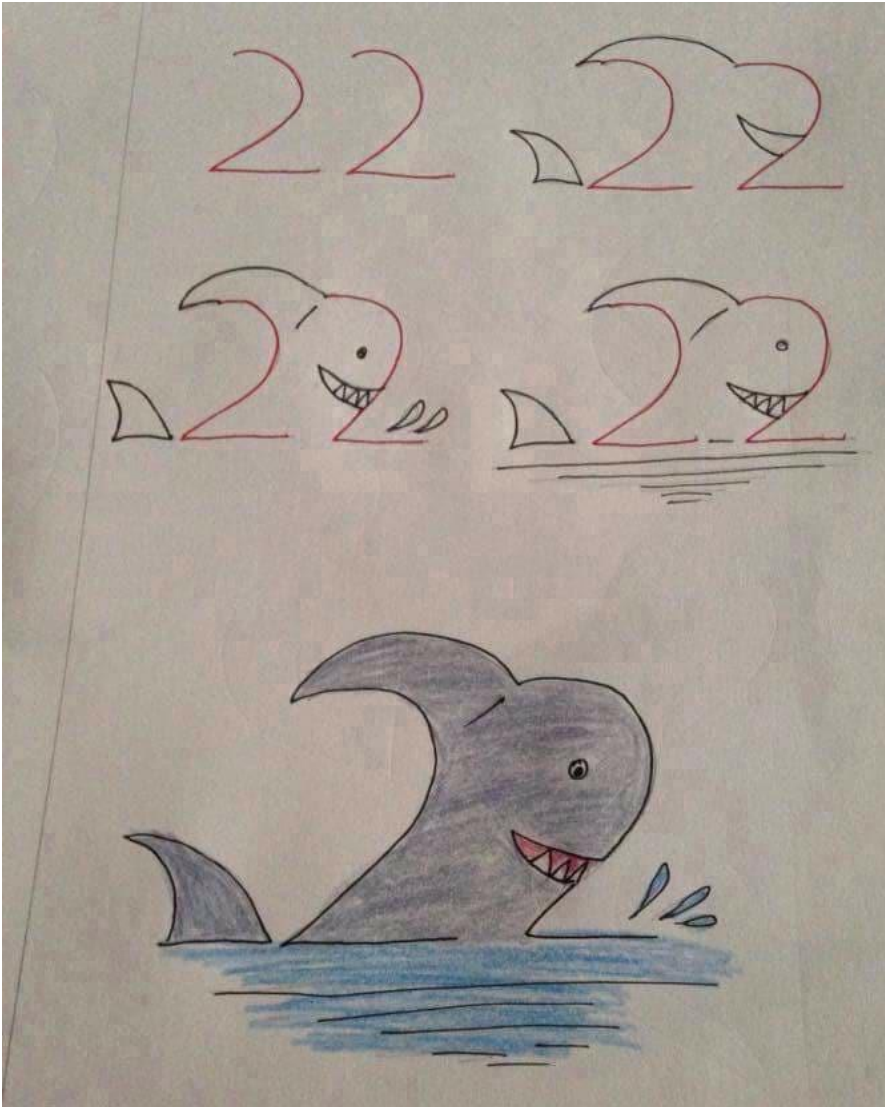
The wheel on the pipe
goes round and round,
all day long!

Do you know which way the valve
must turn to open or to close?
Circle your answer below:

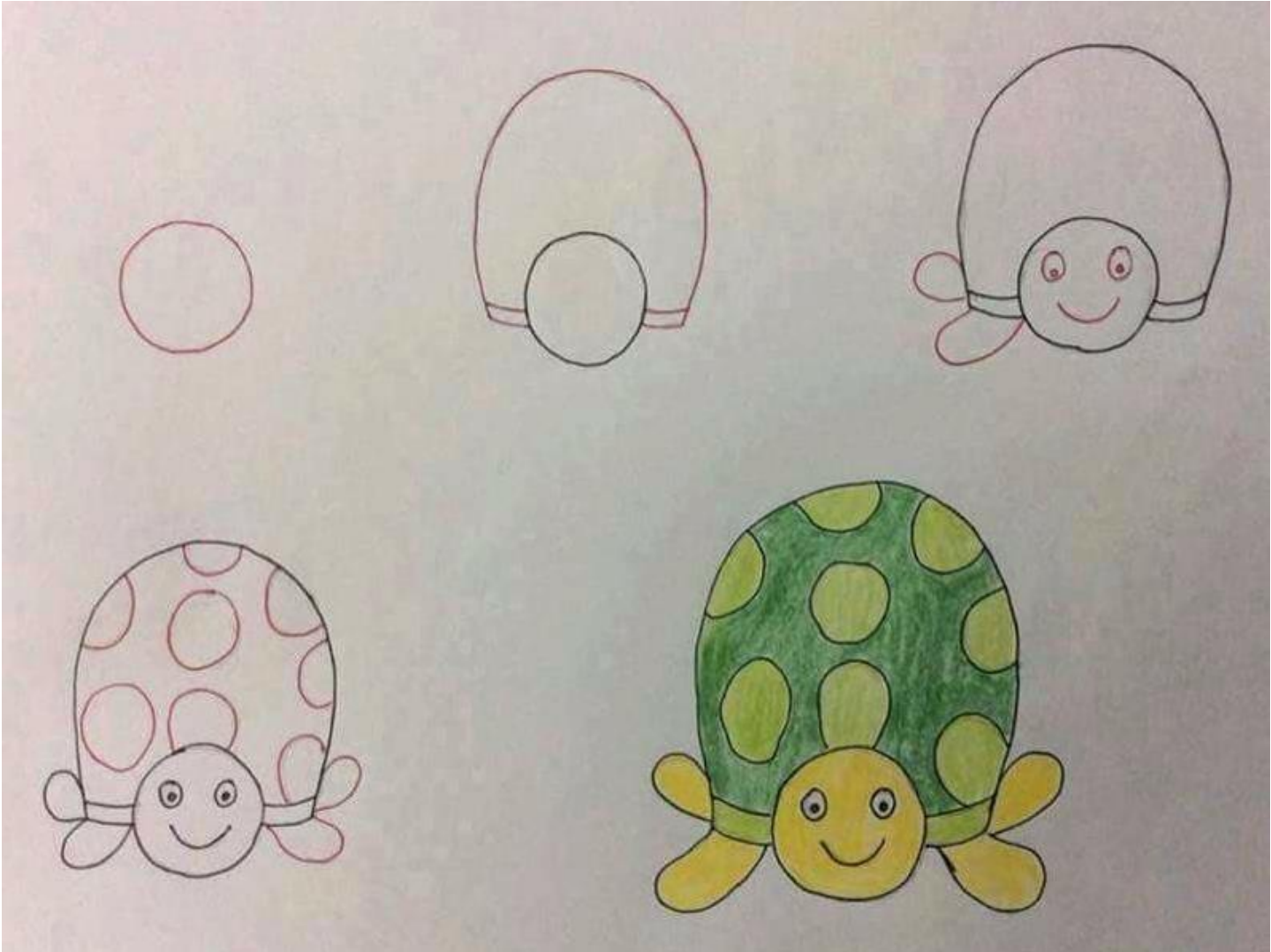
Open Turn Right / Turn Left
Close Turn Right / Turn Left



Did you know the smallest shark is the size of your hand and the largest shark is about 12m long! Have a go at drawing one...



Just like your bones, a turtle's shell is actually part of its skeleton. It's made up of over 50 bones...why not try and draw one!



Experiment #12: Rainbows

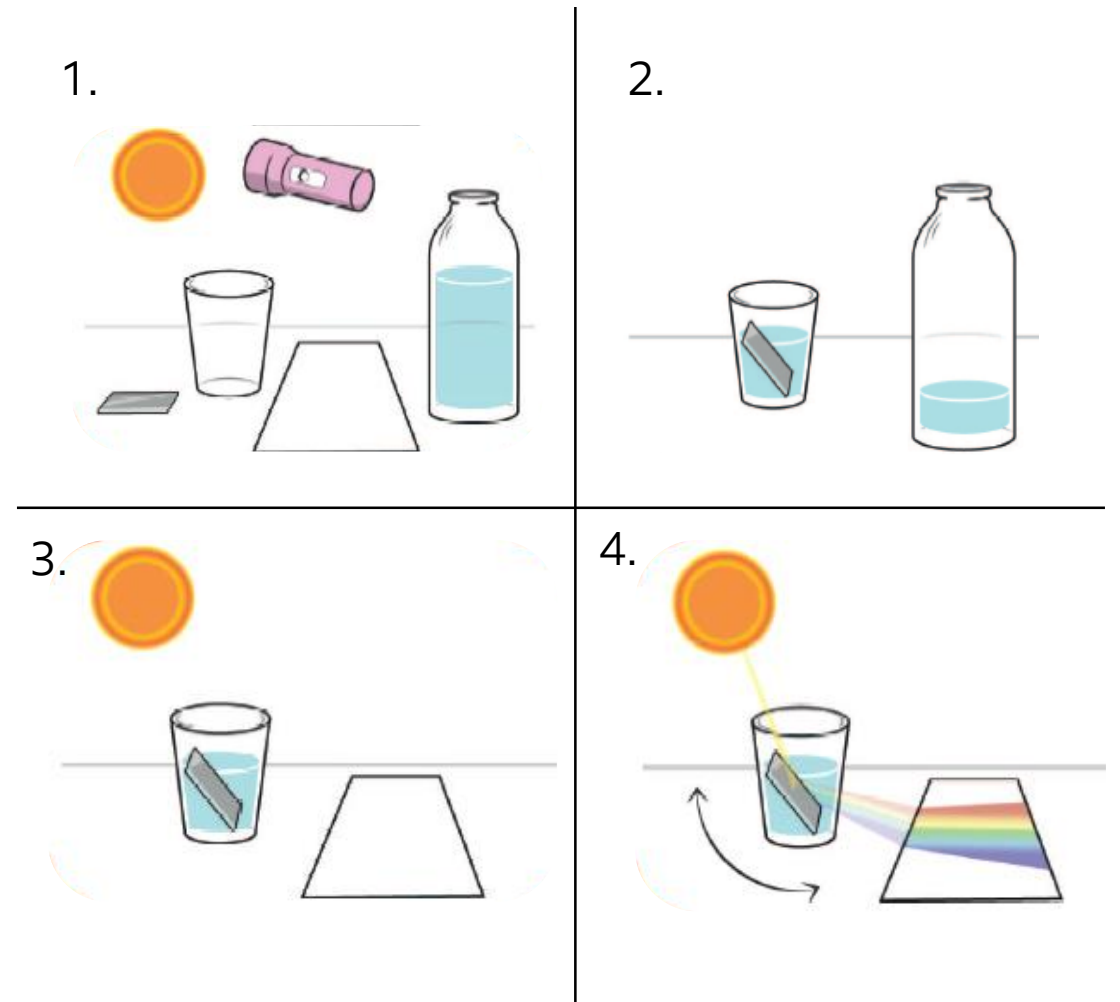
(Make sure you have an adult help you with this experiment)

Items Required:

- A glass
- A small mirror
- A piece of white paper
- Direct sunlight/torch
- Some water
- Some magic!

Instructions:

1. Fill the glass with water and place the mirror in it.
2. Place the glass in direct sunlight or shine a torch onto the mirror.
3. Place the paper on the other side of the glass.
4. Adjust the angle of the mirror until you see the rainbow!



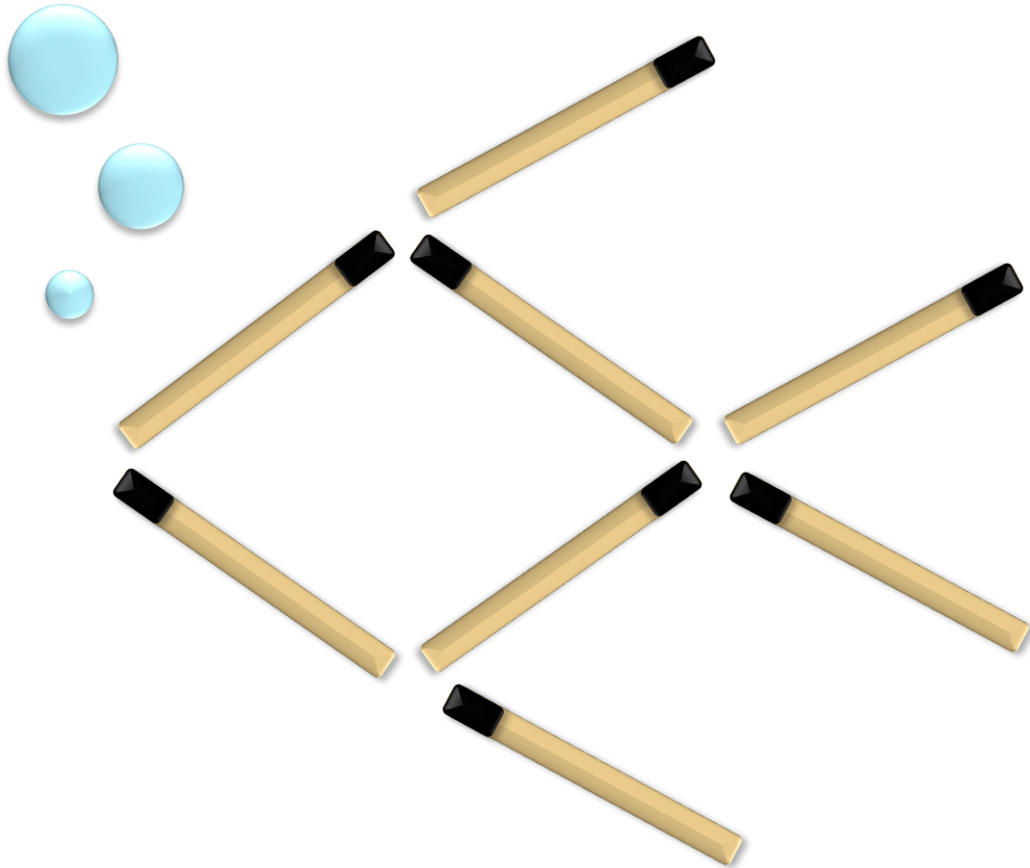
Rainbows are formed when light shines through water, like when the sun shines through the rain. As the light passes from the air to the water, the light is bent (this is called refraction) and reflected (like a reflection in a mirror). This process splits the white light into all the colours of the rainbow.

Rainbows can happen wherever light is being bent inside water droplets such as fog 'fogbows'.

For fun facts and to explore your findings with this experiment, visit the link.

Credit to nultylighting.co.uk for this fun activity: [Learn to Light - Rainbows](https://www.nultylighting.co.uk/learn-to-light-rainbows/)

Week 11 – Maths brain teaser!



Move three sticks and make the fish swim in the opposite direction...

Answers Page for Week 10 Infant/Primary Pack

Cyber Security Maze Slide (Page 4)

The link to 'football.com' takes Eddie to the football.

'football.com' – has too many o's in the web address.

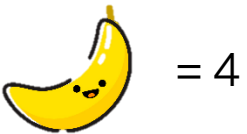
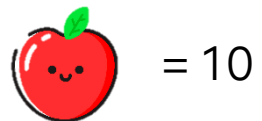
'footbal.com' – doesn't have enough l's in the web address.

'football.ru' – has the incorrect domain in the web address.

Coding Puzzle Slide (Page 5)

STAY SAFE ONLINE

Maths Question Slide (Page 8)



The missing number is 15.

Here are the answers for Week 10
we will include the answers for
Week 11 next week!
Keep up the good work 😊



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We hope you enjoyed the Week 11 activities.

Week 12 will be coming soon.

Best wishes

The ExxonMobil Fawley #SolveItWithSTEM Team!