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July 2020

Week 12 #SolveItWithSTEM@Home Colouring and Experiment Pack

featuring Eddie the STEM Guru

Did you know that sometimes balloons are filled with Helium to help them float?

Welcome to Week 12! We have new, exciting pages for you this week...

2

He

Helium

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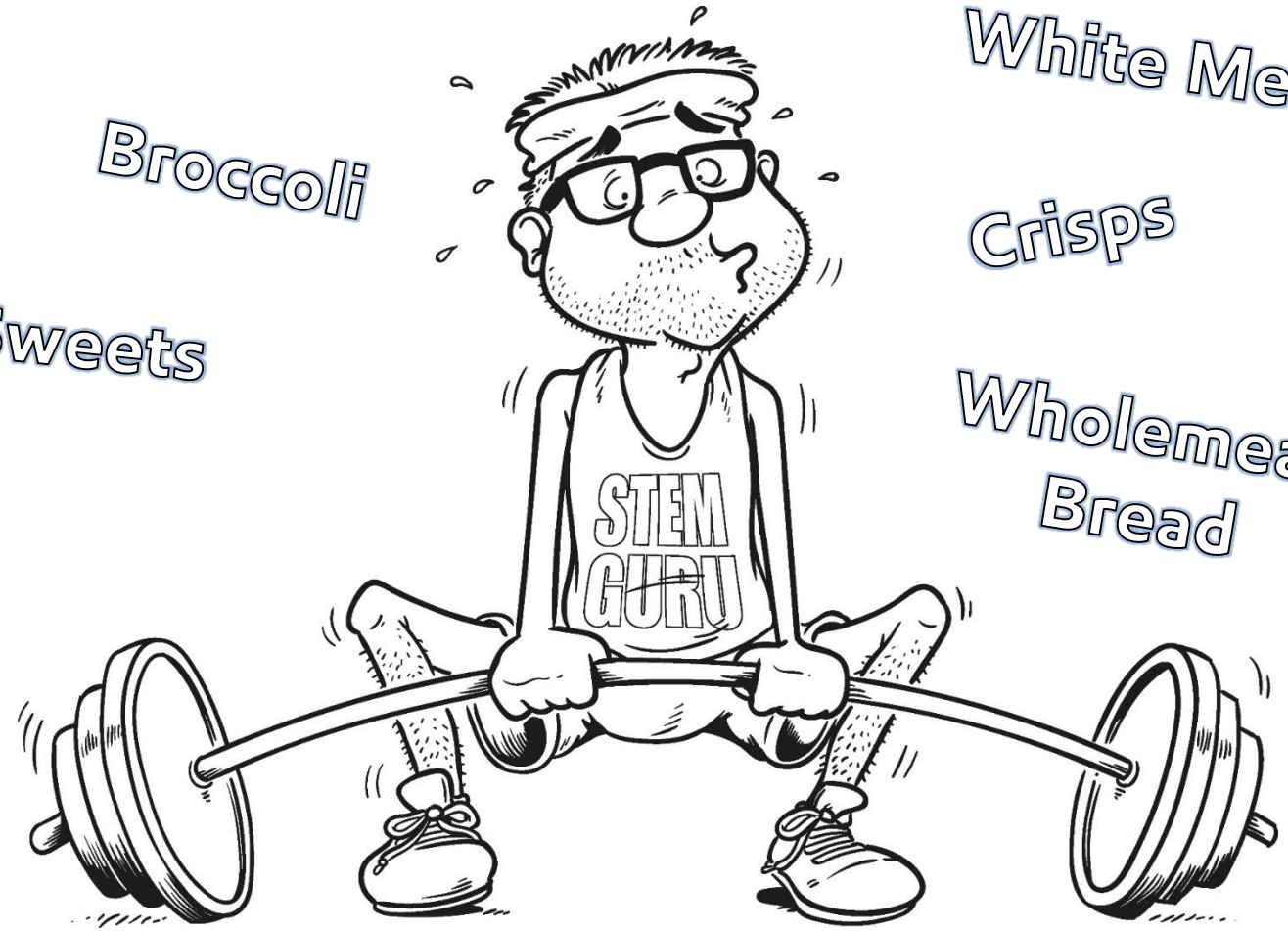
Eddie is struggling to exercise – he can't even pick up the weights!
What does Eddie need to eat/drink to be healthier?
Colour the words below in **blue**

Cake
Carrots
Bananas
Broccoli
White Meat
Water
Eggs
Crisps
Sweets
Spinach
Fish
Wholemeal Bread
Pizza
Coca-Cola
Rice
Apples



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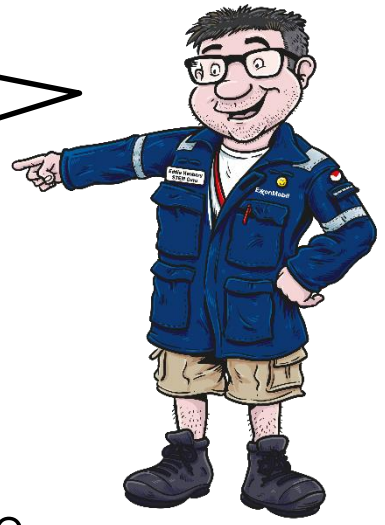
STEM Stars: Mary Jackson

This week, we are introducing STEM Stars! These are people who have or had careers in STEM! We have three exciting stars over the next three weeks…check out who is our first star!



Mary Jackson was an American mathematician and aerospace engineer.

NASA Administrator, Jim Bridenstine, said Mary had helped to break down barriers for African Americans and women in engineering and technology. "Mary W Jackson was part of a group of very important women who helped NASA succeed in getting American astronauts into space," Mr Bridenstine added. In 1958, Mary became the first African American female engineer to work at the National Aeronautics and Space Administration (NASA)!

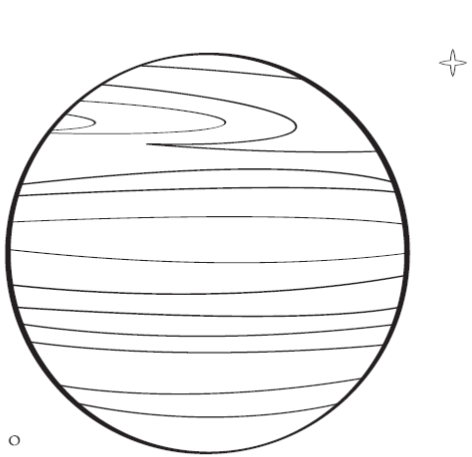
Why is Mary Jackson a STEM Star?

Achieved incredible things especially given her race and gender at this point in history.

Imagery and information from: Britannica, BBC World News

Guess the planets

In light of our first STEM Star, we have based this page on the planets within our solar system! From the clues, can you guess the planets? You can also colour them in!



- The hottest planet in our solar system
- Has an active surface with mountains and volcanoes
- Small and rocky

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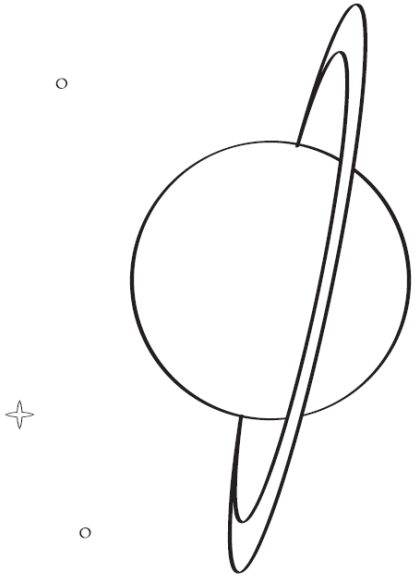


- It is surrounded by a set of 13 rings
- It spins on its side
- It is an ice giant, made of flowing icy materials above a solid core

_ _ _ _ _ _ _

- The smallest planet in our solar system
- The closest planet to the Sun
- Has a very thin atmosphere and no moons

_ _ _ _ _ _ _ _

Experiment #13: Make a galaxy pinwheel

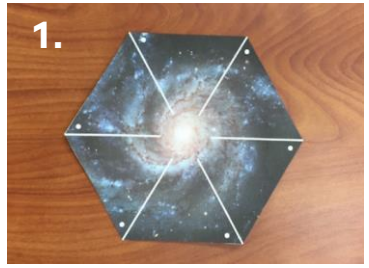
(Make sure you have an adult help you with this experiment)

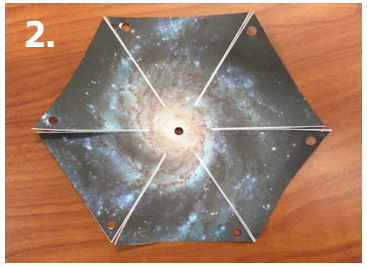
Items required:

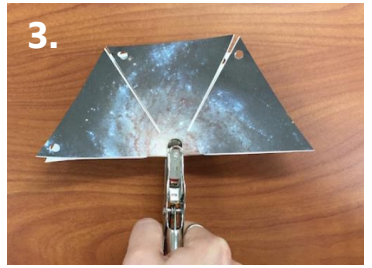
- Galaxy pinwheel image (the image is available on slide 7)
- Pipe cleaner
- Ice lolly stick or chopsticks
- Scissors
- Single hole puncher

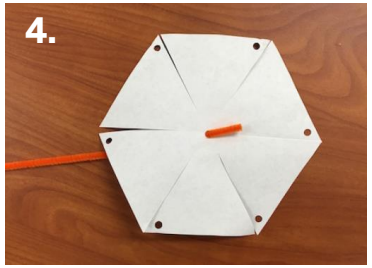
Instructions:

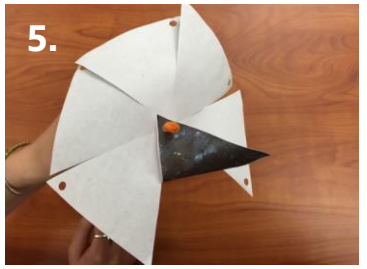
1. Print and cut out the galaxy pinwheel image. If you are unable to print, you can simply copy the measurements on a piece of paper and draw your own galaxy.
2. Cut along the white lines.
3. Punch holes in the white dots: six around the edges and one in the centre. (You may have to fold the hexagon over to reach the centre).
4. Turn the paper so it's face-down and thread the pipe cleaner through the centre hole.
5. Going around the circle, fold each flap so the pipe cleaner goes through the hole.
6. Tie a knot in the pipe cleaner to secure the front of the pinwheel.
7. Wrap the other side of the pipe cleaner around a ice lolly stick. Don't' make it too tight, or it won't be able to move.
8. Blow on it and watch the galaxy spin!











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This experiment was taken from the Space Place NASA website – check it out!

Experiment #13: Make a galaxy pinwheel

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

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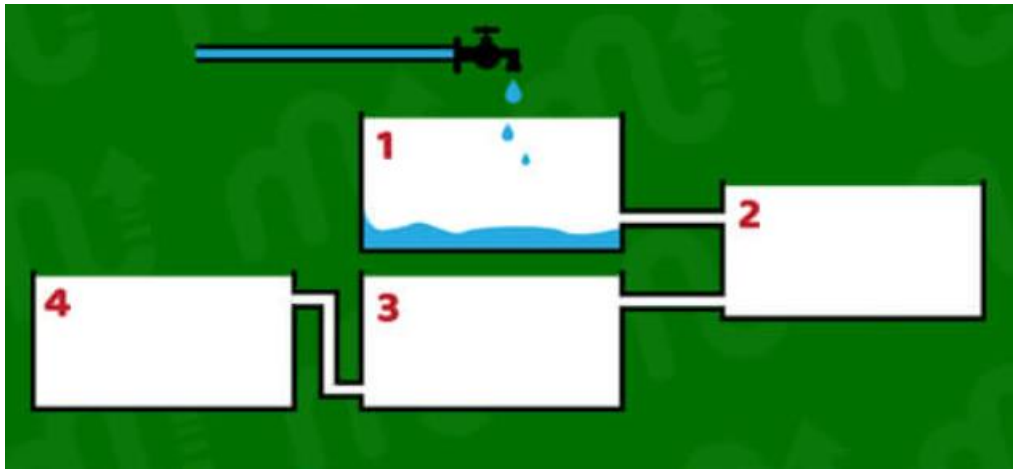
Week 12 – Maths brain teasers!

 +  = 120 kg

 +  = 70 kg

 +  +  = 90 kg

What is the weight of each monster?



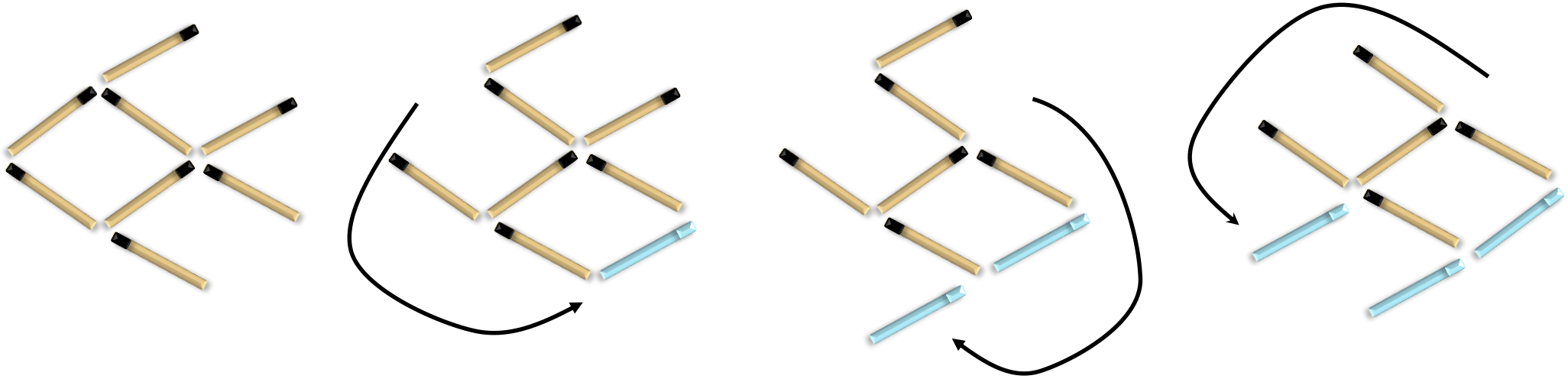
Which tank will be full first?

Answers Page for Week 11 Infant/Primary Pack

Here are the answers for Week 11 we will include the answers for Week 12 next week!
Keep up the good work ☺

The Wheel on the Pipe Colouring Slide (Page 2)
Open – Turn Left (Counter-Clockwise)
Close – Turn Right (Clockwise)

Maths brain teaser (Page 7)



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We hope you enjoyed the Week 12 activities.

Week 13 will be coming soon.

Just to let you know, Week 14 will be our last #SolveItWithSTEM week as we take a break during the Summer Holidays – we hope you have found the packs fun and educational! Keep an eye out for new packs next term!

Best wishes
The ExxonMobil Fawley #SolveItWithSTEM Team!