

June 2020

Week 10 #SolveItWithSTEM@Home

Colouring and Experiment Pack

featuring Eddie the STEM Guru



Candles can be lovely
and relaxing to have
around the house.
How can you make sure
they are used safely at
home?

**Welcome to Week 10
everyone.
This week we have some
exciting, new pages for you.
Why not take a look...**

Eddie has forgotten to use
STEM safety!

Safety is very important when in the
Kitchen....what's your favourite thing
to make/bake at the moment?

And how do you make sure you are
safe when in the kitchen?



Cyber security maze!

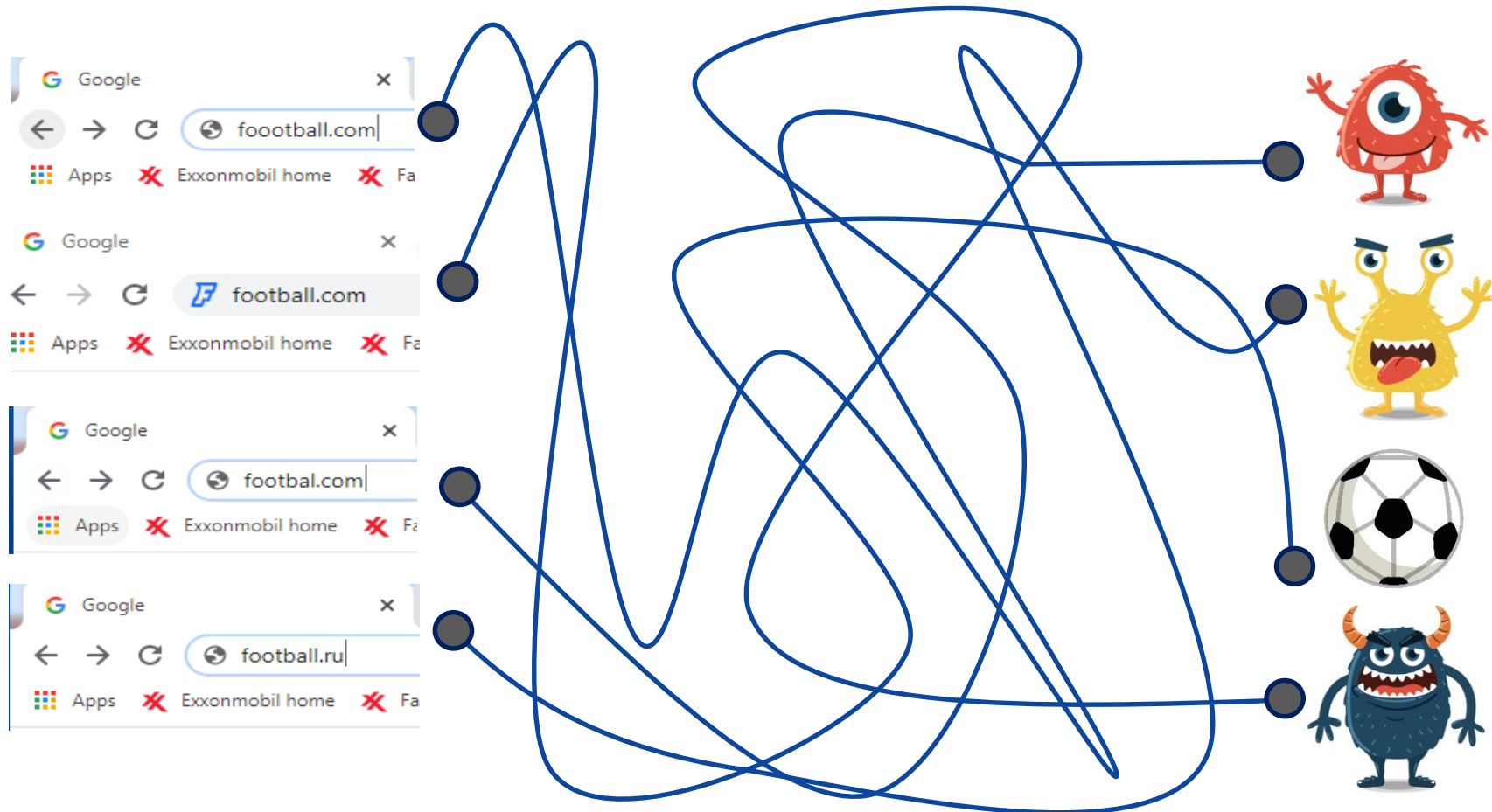
Sometimes it can be hard to know which website or link goes to the place you want.

Sometimes it may lead you to a little monster!

It is really important you ask a parent or teacher if you are unsure and use a search engine to help you.

Can you find which link takes Eddie to his football?

For each link that goes to a monster, can you spot what is wrong with the address?



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Coding puzzle!

Computers use numbers or code to represent words. In the case of written words a specific number is used to represent each letter in the alphabet.

Using the letter key below can you work out what the robot is telling Eddie?

A =	1	K =	11	U =	21
B =	2	L =	12	V =	22
C =	3	M =	13	W =	23
D =	4	N =	14	X =	24
E =	5	O =	15	Y =	25
F =	6	P =	16	Z =	26
G =	7	Q =	17		
H =	8	R =	18		
I =	9	S =	19		
J =	10	T =	20		

19 20 1 25 19 1 6 5

15 14 12 9 14 5



Can you write your own computer message to your parent using the numbers?



Experiment #11: Personal data

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

Items Required:

- Several cups or jars
- Different food colourings
- Large bowl
- A number of fun kitchen utensils (e.g. spoon, sieve, funnel etc)
- Water

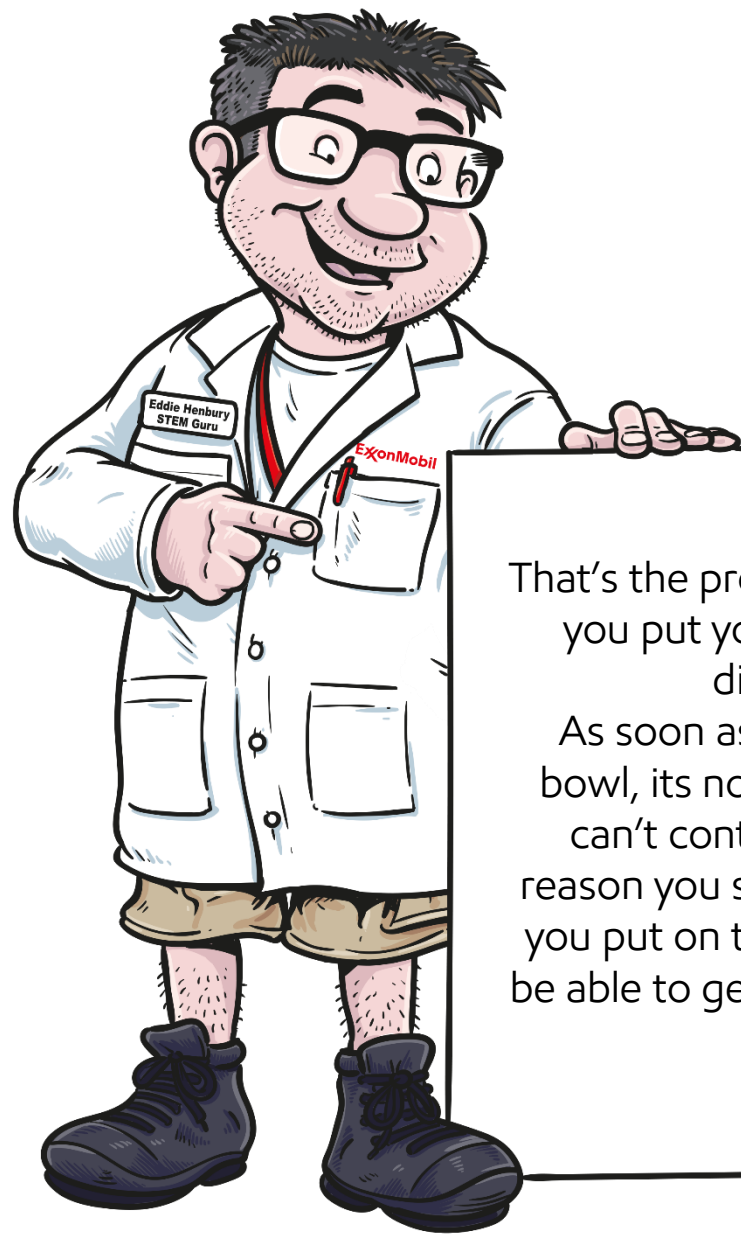
Instructions:

- Fill each cup with water and add different food colouring to each cup. You will only need a couple of drops in each cup.
- Now pick your favourite coloured water and let's pretend that this is your personal data (e.g. your eye colour, your favourite sport, your favourite book)
- Let's pretend the large bowl is the internet.
- You decide to 'post' your details onto the internet e.g. Instagram or Facebook so your friend can see what you like and have been doing.
 - Pour your favourite coloured water into the bowl.
- Now let's pretend the other cups with coloured water in are your parents' details or your best friend etc.
 - Pour those into the bowl too (or post them onto the internet as the term goes!)
- What's happened to the colour? It's important to know all your colours are still there it's just harder to spot them.
- Now what if you don't want your data on the internet anymore and want it back?
 - Try experimenting to see if you can get your own colour back out – use a spoon, sieve etc....



**Did you manage it? No it didn't work? Oh no?
Want to find out why....turn the page!**

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Big thanks to Dave our cyber security expert at Fawley for the last 3 slides on cyber awareness – we hope you have enjoyed them!

That's the problem with the internet, once you put your data out there it is very difficult to get back.

As soon as you poured it into the big bowl, its no longer in your cup and you can't control who has it. It's for that reason you should be careful about what you put on the internet as you might not be able to get it back or stop other people from seeing it.

Week 10 – Maths question!

$$\text{Apple} + \text{Apple} + \text{Apple} = 30$$

$$\text{Apple} + \text{Banana} + \text{Banana} = 18$$

$$\text{Banana} - \text{Coconut} = 2$$

$$\text{Coconut} + \text{Apple} + \text{Banana} = ?$$

Can you work out
what the missing
number is?



Answers Page for Week 9 Infant/Primary Pack

STEM Jobs Colouring Slide (Page 2)

Paramedic, Biology Teacher, Lab Technician, Plant Scientist, Astronaut, Chemical Engineer, Car Mechanic

Taken from the [Big Bang Fair](#) website

Maths Question Slide (Page 7)

19	17	33
37	23	9
13	29	27

Each line equals 69

-4	3	-1	8
9	-2	2	-3
6	1	5	-6
-5	4	0	7

Each line equals 6

Here are the answers for Week 9
we will include the answers for
Week 10 next week!
Keep up the good work 😊



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We hope you enjoyed the Week 10 activities.

Week 11 will be coming soon.

Best wishes

The ExxonMobil Fawley #SolveItWithSTEM Team!