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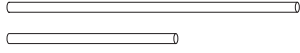
# CAPTAIN FANPLASTIC AND THE QUEST FOR TRUE TREASURE

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# BUILD YOUR OWN KITE

1.



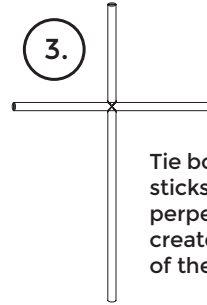
Get two sticks, one must be a third shorter than the other.

2.



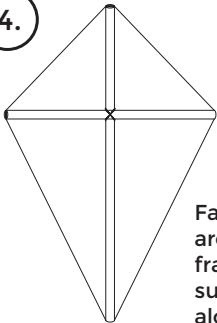
Cut notches into both ends of each stick, this is for the string to stay in place.

3.



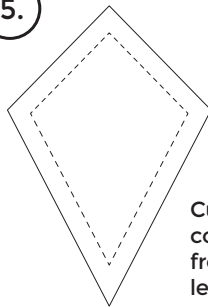
Tie both the sticks together perpendicular to create the frame of the kite.

4.



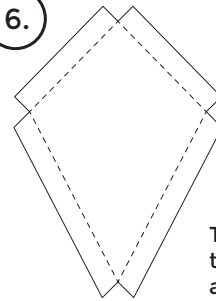
Fasten a string around the kites frame, making sure the string runs along the notches.

5.



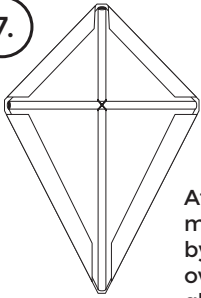
Cut out the cover material from plastic bags, leaving extra space around the edges.

6.



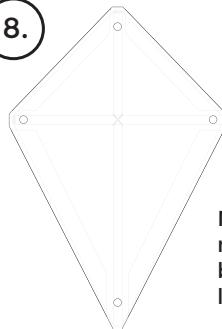
Then cut out the edges which allows us to then fold them over.

7.



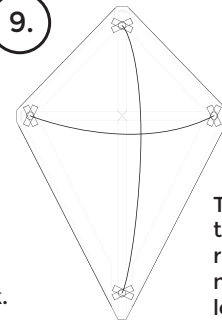
Attach the plastic material to the frame by folding the edges over the string and glueing them down.

8.



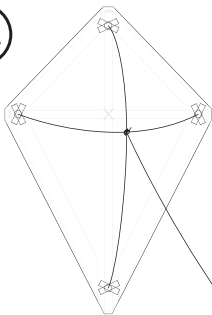
Make two holes near the top and bottom of the longer vertical stick.

9.

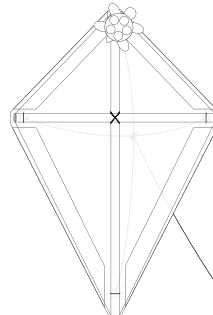


Thread the string through holes and reinforce with masking tape, leave some slack in the string, as this is the sting that will be attached to the kites main line.

10.



Attach the main line to the strings on the kite, then get ready to have some fun!

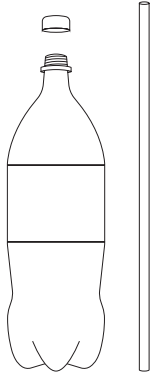


Now attach your recycled Fin to your kite, and lets find some tresures.

# ECO BRICK

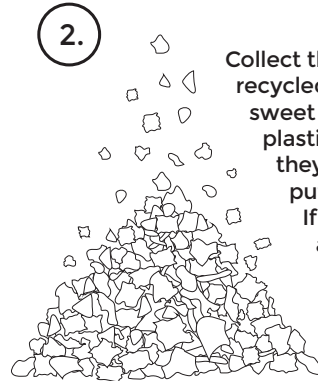
Not every piece of plastic can be recycled. This is why you are going to learn how to make an eco brick. This great idea is already being put into use all around the world to not only keep waste out of the environment but in order to turn it into something to treasure. People are building chairs, planters and even classrooms using this amazing idea. Ask your community to work with you - you can clean up and build up.

1.



Find an empty 2 litre or 5 litre plastic bottle and make sure it has a lid. You will also need a strong stick that can fit into the bottle. Use it to pack all the bits and pieces into the bottle so that they are packed in tight.

2.



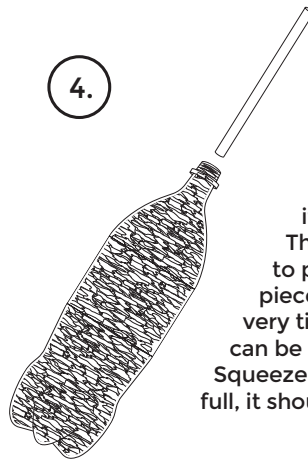
Collect things that can't be recycled like chip packets, sweet wrappers, lollipop sticks, plastic wrap and make sure they are clean before you put them into the eco brick. If they are too big you can always cut them up. Don't put paper, or anything that is wet or still has food in or on it into the eco brick.

3.



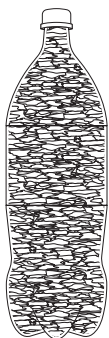
Pack what you can't recycle into the eco brick - you can do this every day and you will make eco bricks very quickly.

4.

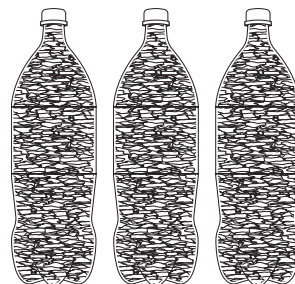


When your eco brick is full make sure that it feels solid and strong. This is why it is important to pack all the bits and pieces you find in the bottle very tightly so that the brick can be strong to build with. Squeeze the bottle when it is full, it should feel quite hard.

5.



Once you are sure the bottle feels almost like a brick then you can put the bottle cap on and there you have it - you have made an eco brick.



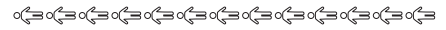
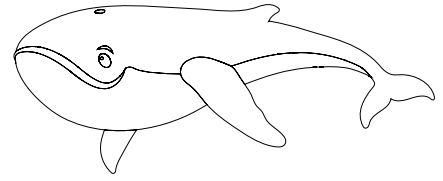
Check out Captain Fanplastic's E-learning platform to see what you can build with the eco bricks.

# MATHS QUESTIONS

## 1. How tall are you ?

\_\_\_\_\_meters

Wanda the Whale is a lot bigger than you are. She is 30 meters long!  
How many times do you fit into Wanda?  
Divide Wanda the Whale's length by your length and find out!



Answer:

30 meters divided by (÷) (your height) \_\_\_\_\_centimetres/ meters = \_\_\_\_\_

You fit \_\_\_\_\_times into Wanda the Whale.

## 2. How many plastic cool drink bottles do you use every week?

Answer:

One year has 52 weeks so calculate how many plastic cool drink bottles you would use in 1 year?



Answer:

52 times (x) \_\_\_\_\_(number of cool drink bottles)= \_\_\_\_\_

You use \_\_\_\_\_plastic cool drink bottles in a year.

## 3. Recycling PET plastic bottles saves energy. Did you know that the energy saved from one recycled plastic bottle can power a computer for 25 minutes!

How long will you be able to power a computer if you recycle 6 plastic bottles in one week?

Answer:

A computer can be powered for \_\_\_\_\_minutes that week.

## 4. You can recycle and re-use your PET plastic cool drink bottles, but you can also use less! This is how you can Reduce your use, the third R of Captain Fanplastic's pirate Rrrrr!

How many plastic bottles will you save every year if you reduce your use by a third?

Answer:

(number of bottles used in a year) \_\_\_\_\_divided by (÷) 3 = \_\_\_\_\_PET plastic bottles that will be saved by you.

## 5. Everyone in South Africa uses around 40 kg of single-use plastic per year! Think of all the things wrapped in plastic like sweets, fast food, cool drink bottles, and straws...This amount of single-use plastic weighs about a third of a 1-meter big green sea turtle!

How much kg of single-use plastic will you use per term?

Answer:

Calculate how much kg of plastic you use per week.

40 kg divided by (÷) (number of weeks in a year) \_\_\_\_\_ = \_\_\_\_\_kg

You use \_\_\_\_\_kg of single-use plastic in one week. This plastic ends up in landfill and will last forever.



Answer:

Calculate how much kg of single-use plastic that will be in one term of school.

(number of weeks in a school term) \_\_\_\_\_weeks times (x) \_\_\_\_\_(your use of single-use plastic in one week)= \_\_\_\_\_kg of single-use plastic will you use per term in school.

How much will that be in all 4 terms during your school year?

Answer:

(kg of single-use plastic used per term) \_\_\_\_\_times (x) 4 = \_\_\_\_\_kg of single-use plastic will be used by me during the whole school year!

**6. How much does a plastic bag cost?**

Answer: \_\_\_\_\_

A year has 365 days. Calculate how much you will spend on plastic bags if you buy one every day for a year?

Answer:

(cost of plastic bag) \_\_\_\_\_ times (x) (number of days in a year) \_\_\_\_\_ = \_\_\_\_\_

This will cost me \_\_\_\_\_ rand.

What else could you spend that money on ? \_\_\_\_\_

How much could you save if you bought one reusable bag for R 20 and used it the whole year instead?

Answer:

Cost of reusable bag - what you would have spent on plastic bags =

This means that if you buy one reusable bag for R 20 you will be able to save ..... rand every year!

**7. How many packets of chips do you buy a week?**

Answer:



How many packets of crisps does that equal per term?

Answer: Number of packets of chips x weeks in a term = \_\_\_\_\_

Did you know: Foil chip packets cannot be recycled. This means that you should not throw them anywhere except into a bin! However you can use them in your eco bricks as long as they are completely empty of any chips.

Question: Count how many chip packets can make one eco brick in one term and let us know

Answer:

You can also use sweet wrappers and other non recyclable plastic in your eco brick. Keep count during the term and let us know what you have used in your eco brick.

Answer: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**8. How many eco-bricks do you think are needed to make a chair for your school?**



\_\_\_\_\_ eco-bricks are needed to make a chair.

**9. When you make an eco-brick, it should have a certain weight. You can calculate the right weight by dividing the ml of your bottle by 3 to find the target weight. During the term you are making or have already made an eco-brick yourself. How much does your eco-brick weigh?**

My eco-brick weighs \_\_\_\_\_ grams.

Is that similar to what the table says?

Bottle volume	Target weight
330ml	110g
420ml	140g
500ml	167g
900ml	300g
1000ml / 1L	333g
1500ml / 1.5L	500g
2000ml / 2L	666g

# WORD SEARCH

Name: \_\_\_\_\_

Grade: \_\_\_\_\_



plastic bottle



recycle



whale



glass



bubble wrap



seagull



paper



PET



polystyrene



reduce



reuse



tins



repurpose



refuse



turtle



can



clingfilm