

Alternative Home Learning for week beginning 08.06.20

Use these activities only if you are finding the Oak Academy isn't right for you and your style of learning. If you decide to use this pack instead of the Oak Academy then you might find some of the tasks are different. You will be covering similar topics but it might be done in a slightly different order and with different tasks.

Task for Tuesday

Reading	Reading - "Daily News - Plant Plastics" then complete the reading comprehension
SPAG Task	Watch the video on Espresso about forming nouns using prefixes Link to video Then complete the quiz questions.
Maths Task	Today we are continuing with equivalent fractions. Have a look at the lesson notes to find out the skills you need to use to complete the pages in the workbook. You are going to be making angles. Complete pages 97 in your Maths No Problem workbook.
Science Task	Play the game to help you recognise the parts of a plant.
Times Table Rock Stars	Spend 15 minutes practising your times tables.

Finding Equivalent Fractions

Lesson 7

In Focus



Sam thinks that $\frac{1}{3}$ can be written in other ways.
Is Sam correct?

Let's Learn

Fold a piece of paper into 3 equal parts.
Shade 1 part.



1 part out of 3 equal parts is shaded.

$\frac{1}{3}$ of the paper is shaded.

$$\frac{1}{3}$$

← numerator
← denominator



In $\frac{1}{3}$, 1 is the **numerator**
and 3 is the **denominator**.

Are there other
ways to write $\frac{1}{3}$?



How many parts are
shaded? What is the
name of each part?



Fold the paper again to get 6 equal parts.



2 parts out of 6 equal parts are shaded now.

$\frac{2}{6}$ of the paper is shaded.

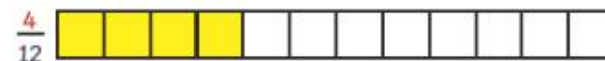


How many parts are shaded?
What is the name of each part?

Fold the paper to get
12 equal parts.



The fractions $\frac{1}{3}$, $\frac{2}{6}$ and $\frac{4}{12}$ have different numerators and denominators.
But they are equal.



$$\frac{1}{3} = \frac{2}{6} = \frac{4}{12}$$

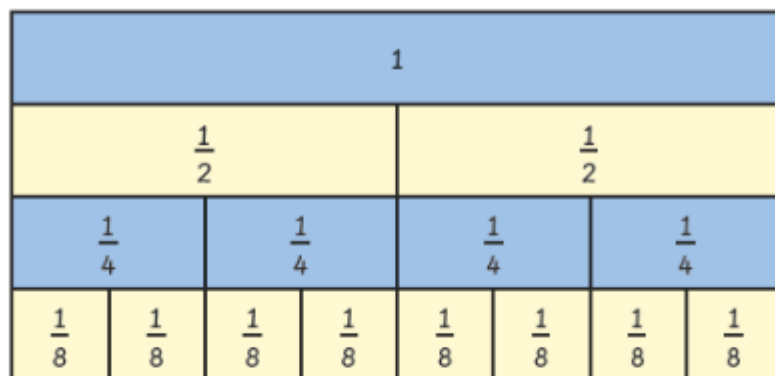
$\frac{1}{3}$, $\frac{2}{6}$ and $\frac{4}{12}$ are equivalent fractions.
They are equal.

What are other equivalent fractions of $\frac{1}{3}$?
Use to help you.



Guided Practice

1



Look at the diagram.

Find the missing numerators.

(a) $1 = \frac{\boxed{}}{4}$

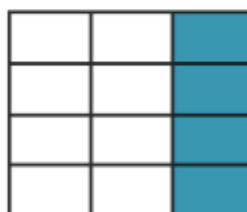
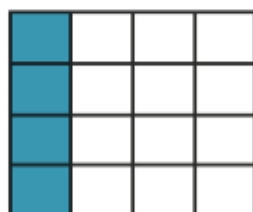
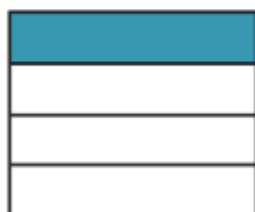
(b) $\frac{1}{2} = \frac{\boxed{}}{8}$

(c) $\frac{3}{4} = \frac{\boxed{}}{8}$

2

The 3 figures are cut into equal parts.

What fraction of each figure is shaded?



Are the fractions equivalent?

Why or why not?

Plant Plastic

What is the problem with plastic?

- According to the United Nations, 300 million tonnes of plastic is created each year.
- Plastic can take hundreds of years to decompose in landfills.

Photo: Plastic bottles.

Scientists Make Plant-Based Plastic

Scientists may have come up with a clever way of tackling the plastic problem. Their **unique** idea is certainly food for thought.

A company in the Netherlands thinks that they have come up with a plastic that will be better for the environment by creating plastic from a plant's sugar!

They currently make 5000 tonnes of plastic every year from the sugars of corn, wheat or beets. They call this special type of plastic PEF.

The owner of the company, Tom van Atken, said the PEF bottles were "100% plant-based, 100% **recyclable** plastic."

They claim that this means that the bottles can **decompose** within a year if people use a **composter**.

This would hugely reduce waste in landfills as most plastic bottles can take hundreds of years to decompose.

Coming up with ideas like plastics made from plants is not the only solution to the plastic problem. People are also being encouraged to use fewer single-use plastics.

The UK government is set to mostly ban

the use of plastic straws, cotton buds and drink stirrers in October. According to the government, the UK uses nearly five billion plastic straws and nearly two billion plastic cotton buds each year!

Last October, around half a million girls and young women made a plastic promise. Rainbows, Brownies and Girl Guides will promise to take action on plastic pollution.

You'll have to wait a while before you can buy one of these plant-based plastic bottles. The scientists still have further tests to do. If they are successful, they hope the new bottles will be hitting our shelves by 2023.

Glossary

unique	Unusual.
recyclable	Converting waste into reusable material.
decompose	To rot or decay.
composter	Device used to create compost which is used to help plants grow.

Questions

1. When might the plant-based bottles be available in shops?

- ☐ 2020
- ☐ 2021
- ☐ 2022
- ☐ 2023

2. Why are people interested in plant-based plastics?

3. Why do you think scientists will have to do further tests?

4. “... by creating plastic from a plant’s sugar!” This suggests that...

- ☐ This is a normal way to make plastic.
- ☐ This is an unusual way of making plastic.
- ☐ The author is shouting.
- ☐ Plastics can not be made from sugar.

5. How do you think scientists will feel about this news?

6. Summarise the story in 20 words or fewer.

Roll and Draw Plant Game

To play this game you will need a 1 - 6 dice, a pencil and paper and a friend or family member to play with.

All plants are made up of different parts - roots, the stem, leaves and flowers.

The aim of this game is to draw a complete plant by rolling the dice.

You can draw a different part of your plant each time you roll a number:

- 1 = the roots
- 2 = the stem
- 3 = the leaves
- 4 = the petals
- 5 = the stamens
- 6 = the style and the stigma

If you roll a number you have already had, you should miss a turn.

Who will be first to draw a complete plant?!

