



IS PAPER A SUSTAINABLE MATERIAL?



in
collaboration
with



EARLY, MIDDLE & UPPER PRIMARY

Chemistry
Great Science Share for Schools
- paper special



SESSION 1

How can we recycle paper?

EARLY, MIDDLE & UPPER PRIMARY

Chemistry
Great Science Share for Schools
- paper special
Session 1 of 2



WHAT DO WE USE PAPER FOR?

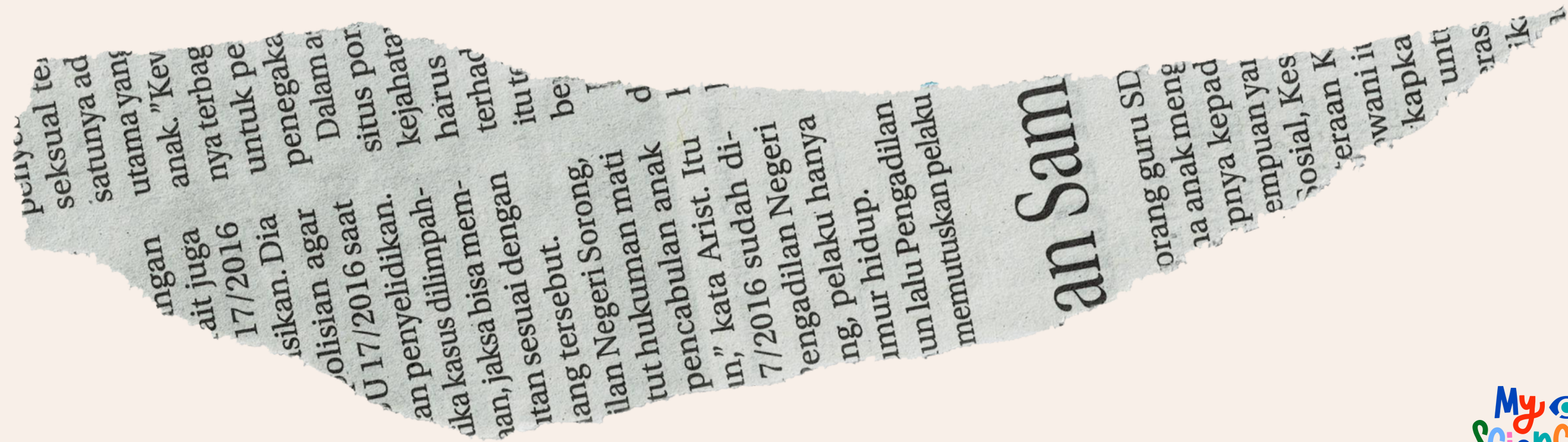


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WHERE DOES PAPER COME FROM?



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WHAT ARE THE SUSTAINABILITY CONCERNS AROUND PAPER PRODUCTION AND CONSUMPTION?



Image credit: [Sustainable Development Goals](#)



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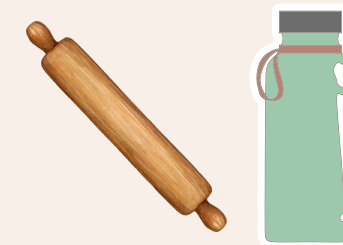
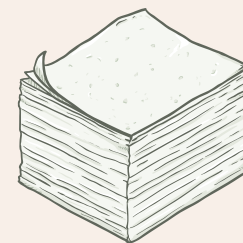
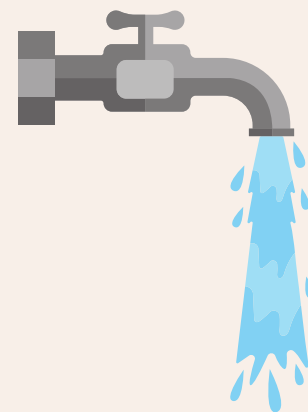
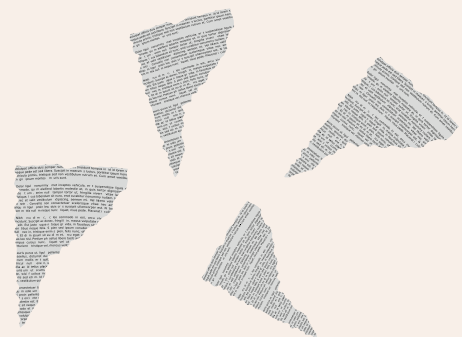


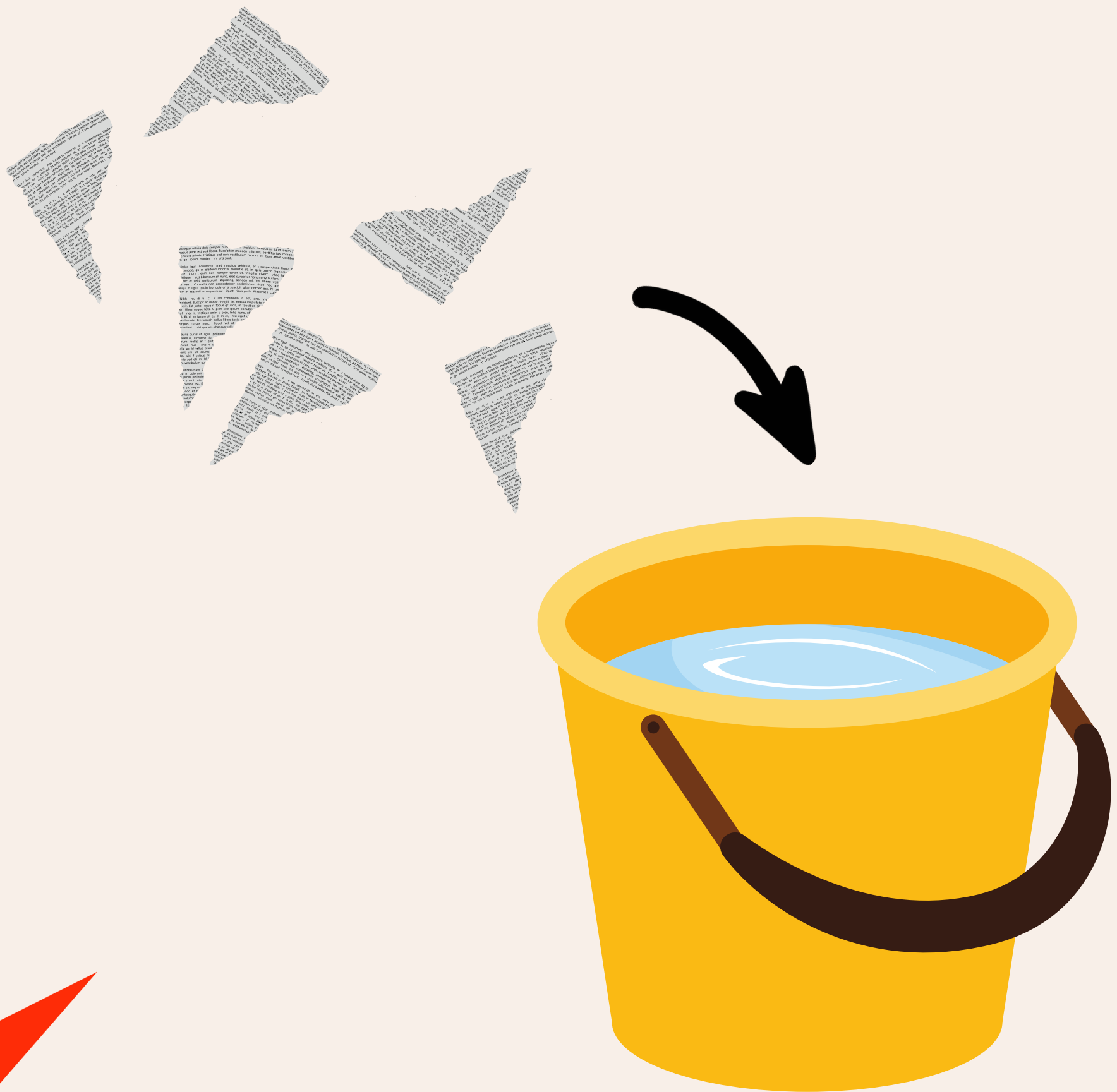
MAKING PAPER..



You will need:

- Shredded newspaper
- Water
- A bucket or a tub
- A wooden spoon
- Paper towels
- Water bottles/rolling pin
- Sieve





Shred the newspaper and place in a bucket of water.

Leave in a warm place for several days stirring occasionally and topping up water if needed.

Scoop out the mixture from the bucket and put into a sieve.

Press the mixture into the sieve to release the water into a container below.

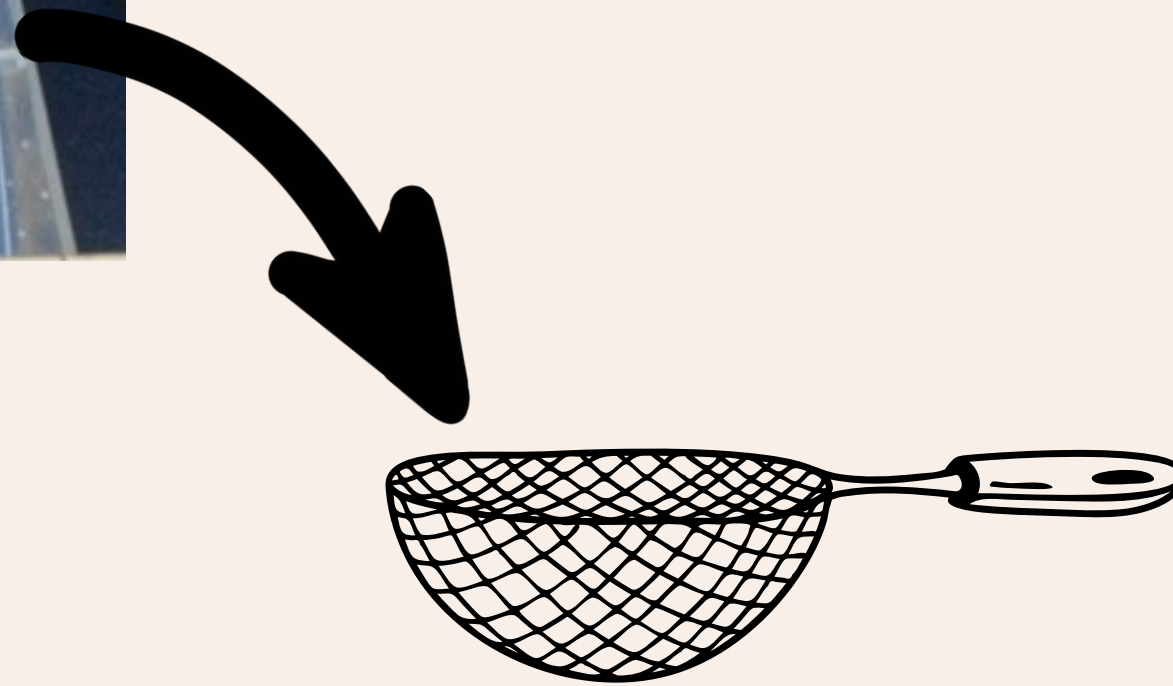


Photo credit ; Catriona Hamilton



Place the mixture on top of some paper towels or cloth and smooth it out into the shape you want.

Photo credit ; Catriona Hamilton



Place two more paper towels (or a cloth) on top of the mixture and roll it out with a water bottle or rolling pin.

The water should escape at the sides.

Photo credit ; Catriona Hamilton



Carefully peel off the paper towels or cloth and lift your paper onto a separate paper towel.

Leave to dry on a windowsill.

Photo credit ; Catriona Hamilton



Leave your paper to completely dry until the next science club, then you can plan your own investigation into the sustainability of paper.



Photo credit Elaine Arbuckle



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SESSION 2

Is paper a sustainable material?

EARLY, MIDDLE & UPPER PRIMARY

Chemistry
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Session 2 of 2



HAVE A LOOK AT YOUR PAPER FROM LAST WEEK.

WHAT DOES IT LOOK AND FEEL LIKE?

WHAT IS IT LIKE TO WRITE ON?



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 **SUSTAINABLE DEVELOPMENT GOALS**





12 RESPONSIBLE CONSUMPTION AND PRODUCTION



To ensure sustainable consumption and production patterns



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Image credit: [Sustainable Development Goals](#)



RECYCLE PAPER,
PLASTIC, GLASS
AND ALUMINIUM.

By 2050, the equivalent
of almost three planets
could be required to
sustain current lifestyles.



12 RESPONSIBLE CONSUMPTION AND PRODUCTION

ENSURE SUSTAINABLE CONSUMPTION AND PRODUCTION PATTERNS

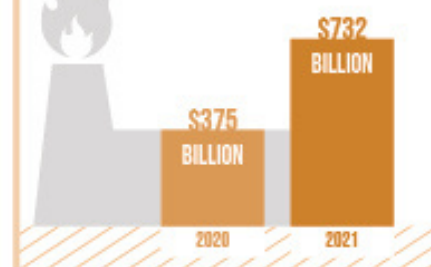
HIGH-INCOME COUNTRIES LEAVE A LARGER ENVIRONMENTAL FOOTPRINT COMPARED TO LOW-INCOME COUNTRIES

MATERIAL FOOTPRINT PER CAPITA IN HIGH-INCOME COUNTRIES IS

10 TIMES THAT OF LOW-INCOME COUNTRIES



DESPITE CALLS FOR A PHASE-OUT OF FOSSIL FUEL SUBSIDIES RETURN AND NEARLY DOUBLED, TRIGGERED BY GLOBAL CRISES



ON AVERAGE, EACH PERSON WASTES

120 KILOGRAMS

OF FOOD PER YEAR



SUSTAINABILITY PATHWAY

62 COUNTRIES + EU INTRODUCED

485 POLICIES

FOR SUSTAINABLE CONSUMPTION AND PRODUCTION SHIFTS (2019-2022)



COMPANY SUSTAINABILITY REPORTING HAS TRIPLED SINCE 2016





Use natural resources efficiently & manage them sustainably.



#GlobalGoals

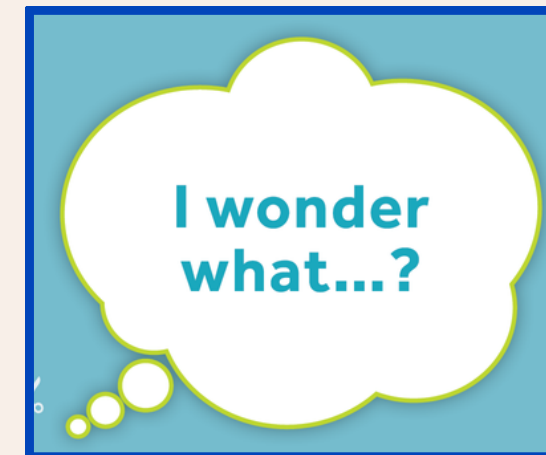
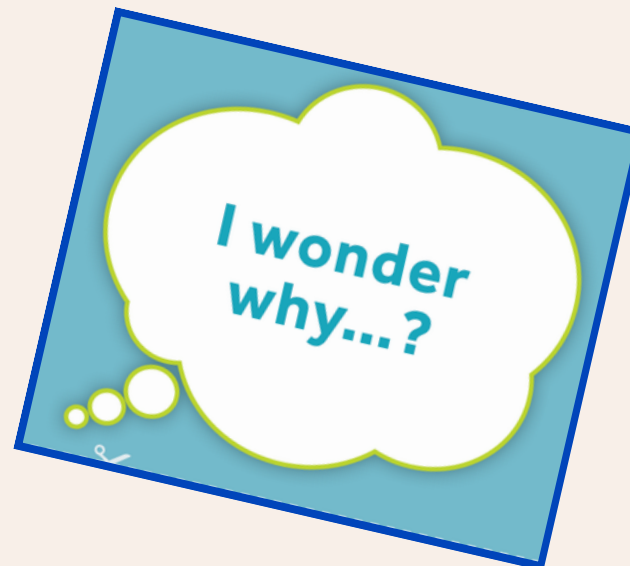
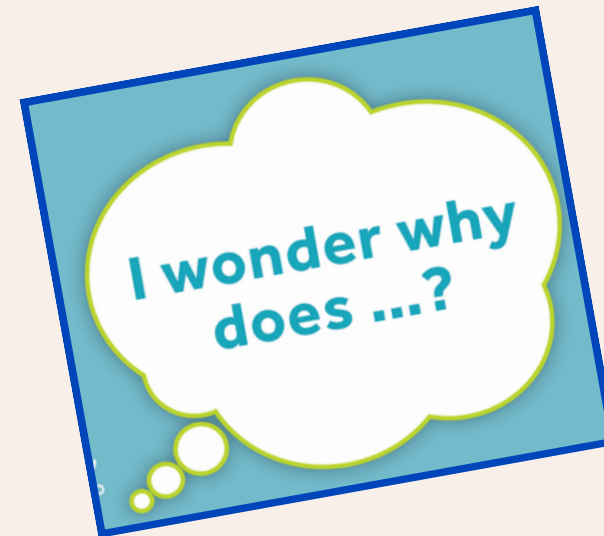
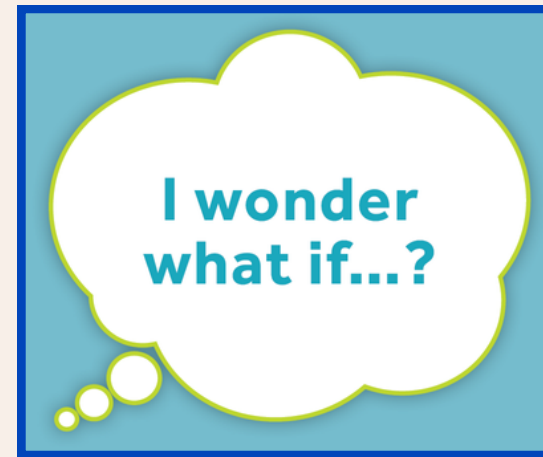
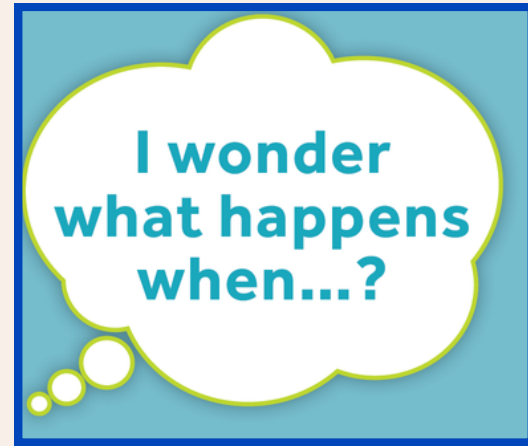
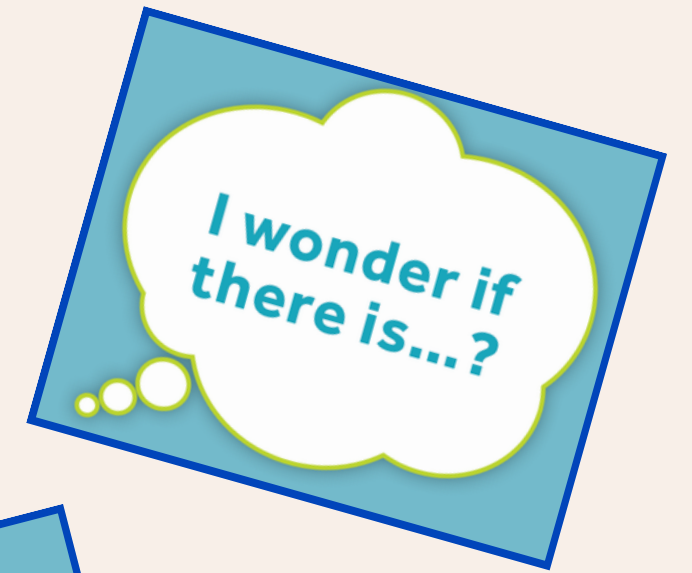
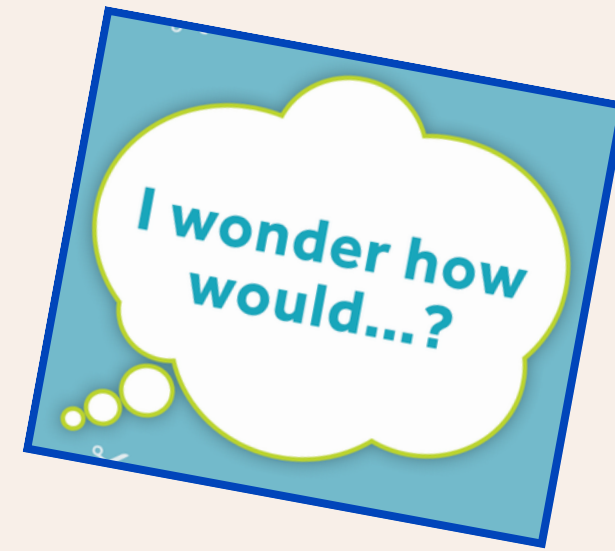
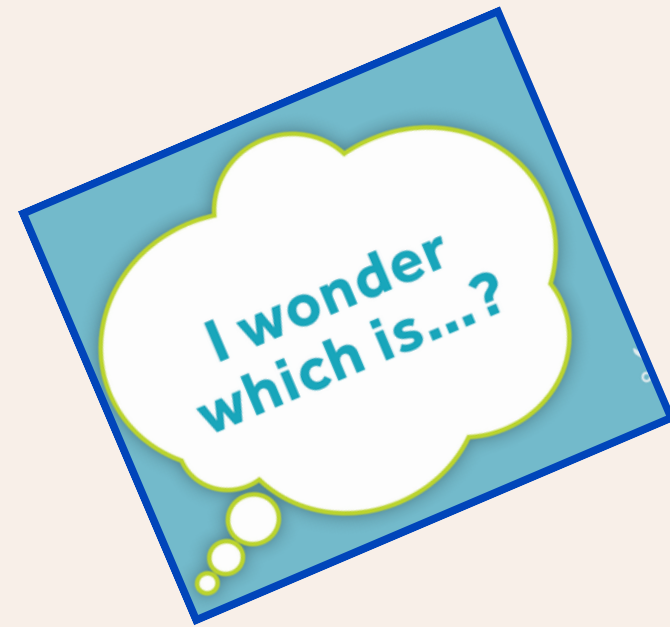


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12 RESPONSIBLE CONSUMPTION AND PRODUCTION





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Together we wondered...

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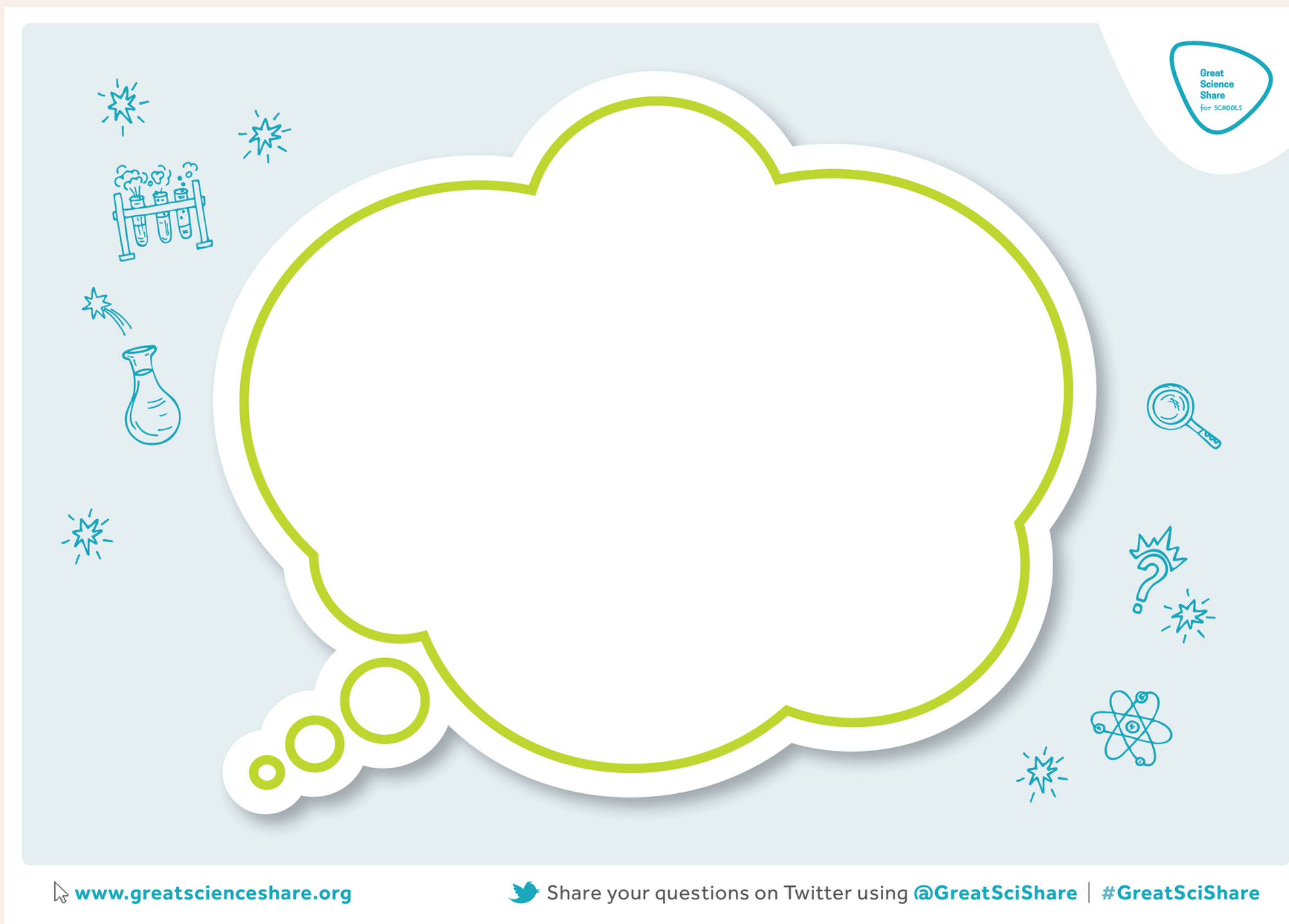


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