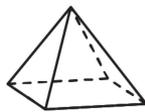
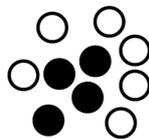


Monday

1. $46 + 39 = \underline{\quad}$
2. $57 - 1 = \underline{\quad}$
3. $55 - 4 = \underline{\quad}$
4. $1 \times 9 = \underline{\quad}$
5. $54 \div 6 = \underline{\quad}$
6. What is the value of the number in the ones place in 507? $\underline{\quad}$
7. Complete this counting pattern:
36, 46, 56, 66, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$
8. What is the difference between 27 and 21?
 $\underline{\quad}$
9. Share \$38 between 2 children. $\underline{\quad}$
10. 50 cents + 5 cents + \$1.00 = $\underline{\quad}$
11. 10 cents + 20 cents + \$1.00 = $\underline{\quad}$
12. 120 minutes = $\underline{\quad}$ hours
13. How many weeks is 49 days? $\underline{\quad}$
14. How many faces does a square-based pyramid have?
 $\underline{\quad}$

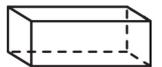


15. Which circle has the highest chance of being selected? Black or white? $\underline{\quad}$

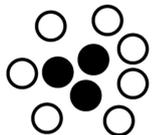


Tuesday

1. $57 - 1 = \underline{\quad}$
2. $54 + 85 = \underline{\quad}$
3. $12 - 7 = \underline{\quad}$
4. $99 \div 9 = \underline{\quad}$
5. $0 \times 2 = \underline{\quad}$
6. What is the value of the number in the tens place in 6900? $\underline{\quad}$
7. Complete this counting pattern:
67, 74, 81, 88, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$
8. In a group of 82 students, 25 would like to play field hockey and the rest want to play rugby union. How many want to play rugby union? $\underline{\quad}$
9. What is the product of 7 and 9? $\underline{\quad}$
10. \$2.00 + 10 cents + 50 cents = $\underline{\quad}$
11. \$1.00 + 10 cents + 50 cents = $\underline{\quad}$
12. How many minutes is 120 seconds? $\underline{\quad}$
13. How many days are in July? $\underline{\quad}$
14. How many faces does a rectangular prism have? $\underline{\quad}$



15. Which circle has the highest chance of being selected? Black or white? $\underline{\quad}$



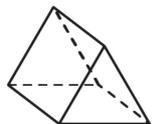
Wednesday

1. $19 + 78 = \underline{\quad}$
2. $44 - 8 = \underline{\quad}$
3. $70 + 12 = \underline{\quad}$
4. $11 \times 2 = \underline{\quad}$
5. $48 \div 6 = \underline{\quad}$
6. Write the largest number you can using: 8, 2, 6, 6. $\underline{\quad}$
7. Complete this counting pattern:
7, 12, 17, 22, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$
8. What is the sum of 42 and 54? $\underline{\quad}$
9. Divide 21 by 7. $\underline{\quad}$
10. 5 cents + 20 cents + 10 cents = $\underline{\quad}$
11. 10 cents + \$2.00 + \$1.00 = $\underline{\quad}$
12. What digital time does the clock show? $\underline{\quad}$



13. 96 hours = $\underline{\quad}$ days

14. How many faces does a triangular-based prism have?
 $\underline{\quad}$



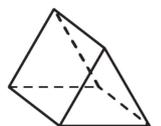
15. Which star has the highest chance of being selected? Black or white? $\underline{\quad}$



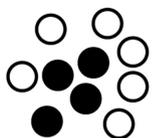
Thursday

1. $76 - 5 = \underline{\quad}$
2. $66 + 95 = \underline{\quad}$
3. $42 + 74 = \underline{\quad}$
4. $3 \times 3 = \underline{\quad}$
5. $12 \div 3 = \underline{\quad}$
6. Is 3428 an odd or even number? $\underline{\quad}$
7. Complete this counting pattern:
28, 32, 36, 40, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$
8. Bella has 92 marbles. Michael has 122 marbles. How many more marbles does Michael have? $\underline{\quad}$
9. Share 20 strawberries between 4 children.
 $\underline{\quad}$
10. 10 cents + 10 cents + \$1.00 = $\underline{\quad}$
11. \$1.00 + 5 cents + 20 cents = $\underline{\quad}$
12. How many hours from 9 am to 2 pm? $\underline{\quad}$
13. How many days are in August? $\underline{\quad}$

14. A triangular-based prism has $\underline{\quad}$ corners.



15. Which circle has the highest chance of being selected? Black or white? $\underline{\quad}$



What is a gas?



- 1** In 1982, a man named Larry Walters attached some balloons to a chair and flew nearly 5 km up into the air.

How many balloons do you think he used, and what do you think he put in them?

Vocabulary

matter
mass

volume
compress

flow
gas

odour

Materials needed

ACTIVITY QUESTION 4

Activities that move air

You will need:

- some balloons
- an electric fan
- a bike pump



INVESTIGATION QUESTION 5

Waterproof Paper

Each group will need:

- 1 clear plastic cup
- tissue or a piece of paper towel
- sticky tape
- 1 large, deep bowl full of water (preferably clear)



INVESTIGATION QUESTION 6

Teacher Led Investigation: A Gas Bag

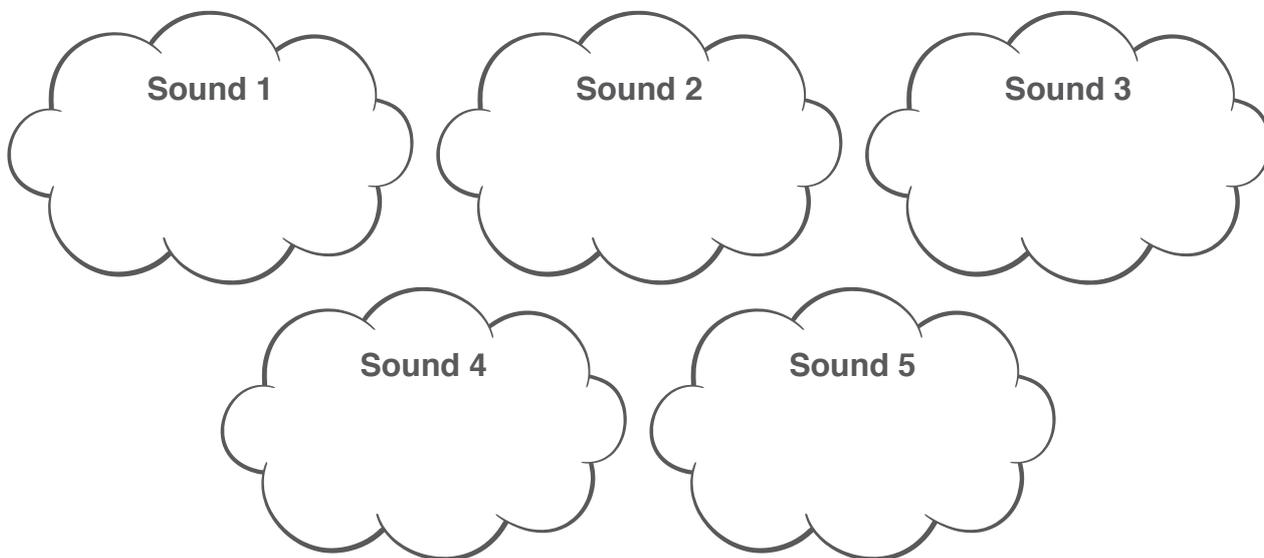
You will need:

- 1 small ziplock bag (snack size)
- 1 cup of vinegar
- baking soda
- 1 teaspoon



2 Play **Name That Sound!** Listen carefully to the audio clip.

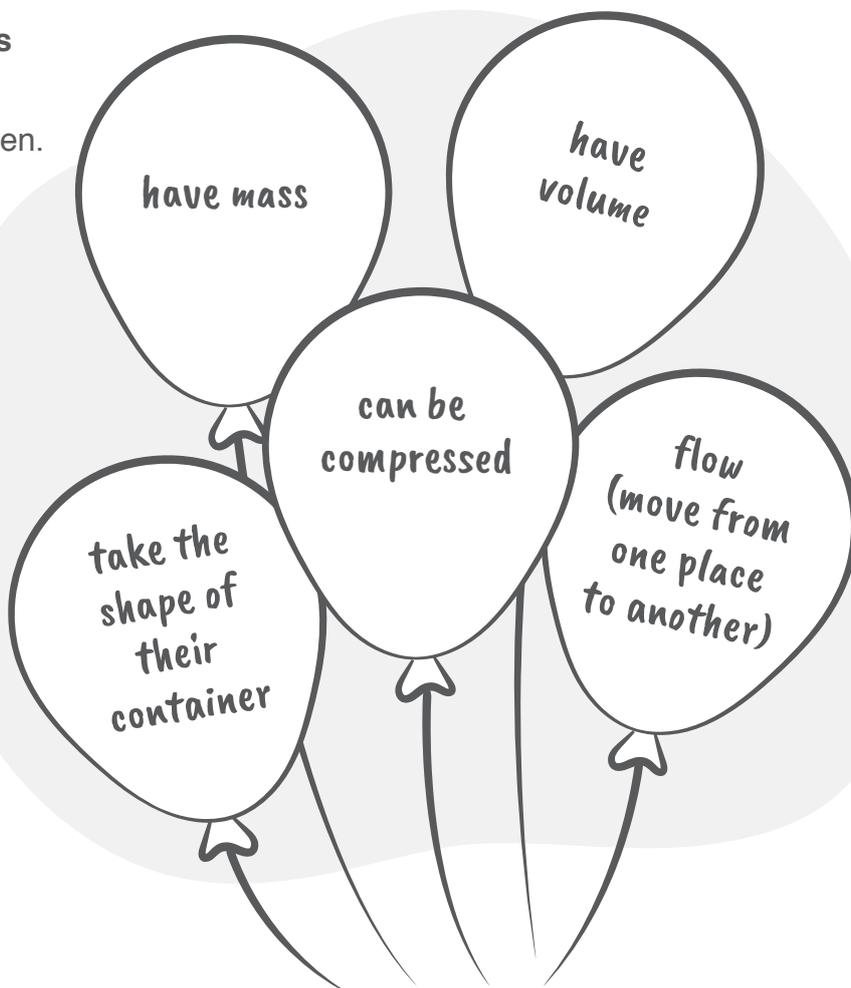
3 There are five different sounds to identify. Write down what you think each one is.



What type of matter do all of these sounds have in common?

The Properties of Gases

Air is a mixture of gases, mostly nitrogen and oxygen. Like solids and liquids, gases are matter. We can identify gases by their properties and their behaviour.



- 4 Perform the following simple activities that move air. As you do each one, make notes in the notebook about what is happening to the air. Use the words in the balloons on page 3 to help you.

Activity	What is happening to the air?
<ul style="list-style-type: none"> • Take a big, long, slow breath in. Breathe out slowly. Do it again. • Blow up a balloon. Hold the ends closed – do not tie it off. • Slowly let the air out of your balloon by pinching the sides of the opening. 	<ul style="list-style-type: none"> • • •
<ul style="list-style-type: none"> • Stand in front of a fan or air conditioner. <p> Don't touch the fan!</p> 	<ul style="list-style-type: none"> •
<ul style="list-style-type: none"> • Pump a bike pump. Put your hand in front of the opening as you pump. 	<ul style="list-style-type: none"> •

5 Investigation: Waterproof Paper

Step 1: Collect the materials listed on page 2.

Step 2: Scrunch up the tissue/paper towel and wedge it into the bottom of the cup. You could use a small amount of tape to hold it in place.



Step 3: Hold the cup upside down over the water.

What will happen to the paper if you lower the cup down into the water? Write your **prediction**.

Predict

Step 4: Lower it quickly down to the bottom of the bowl. What happens to the paper? Write your **observation**.

Observe

Step 5: Lift the cup straight up out of the water. Dry around the edge, then feel the paper. Write an **explanation** for what you observed and felt.

Explain

What property of gases does this investigation demonstrate?

Step 6: Repeat steps 3–5. Holding the cup at the bottom, tilt it by lifting up one side until you hear a sound. What makes that sound? Discuss some ideas with a partner.

Some gases occur naturally, others are made by combining two substances.

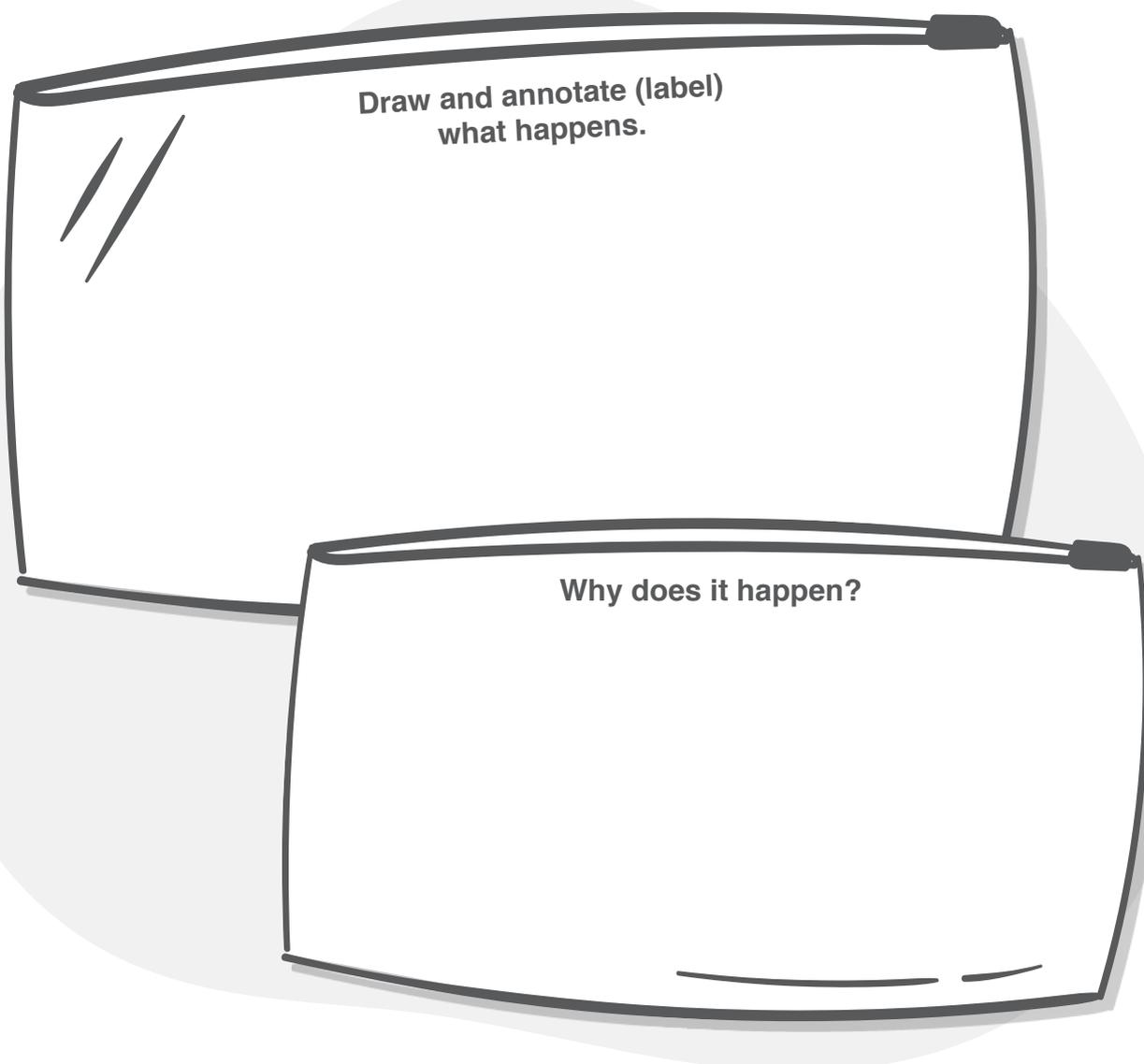
6 Teacher Led Investigation: A Gas Bag

Step 1: Collect the materials listed on page 2.

Step 2: Have one person hold the bag open while another pours in vinegar to a depth of about two fingers high.

Step 3: Pinch the sides of the bag closed, so it will be easy to zip up quickly.

Step 4: Add one teaspoon of baking soda into the bag and zip it up quickly.



What properties of gases does this activity demonstrate?

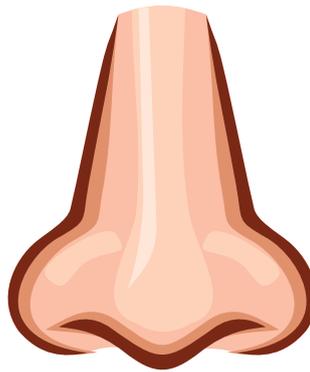
Many gases are clear and colourless; we cannot see them. However, many gases do have an odour (a distinctive smell); we can smell them.



Smells delicious!

7

Write around the nose all the odours (gases) that you might smell in your house or garden.



Sometimes we can smell these gases from a long way away. What property of gases makes us able to do this?

8

Watch the video about a substance called Aerogel, which is 99% gas.

Aerogel is a good insulator (a substance that does not let heat or cold through it easily), but it is expensive so it is not often used.

How could these people use Aerogel?

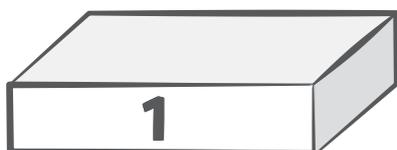


an astronaut



a firefighter

Think of three more products that might contain Aerogel in the future.



9

Imagine you are a scuba diver preparing for a dive. How could you tell the difference between a full air tank and an empty one?



What do you think is inside an 'empty' air tank? Explain your answer.

Prefixes anti, dia

6 **Write** the words from the box to match the definitions. **Use** a dictionary to help.

The prefix **anti** means *against*.
The prefix **dia** means *through* or *across*.

anticlockwise antivenom antibody antibiotic antisocial diameter diagonal diagram

- straight line through the centre of a circle _____
- a drawing that shows the parts of something _____
- a medicine that fights against snake and spider venom _____
- straight line connecting opposite corners across a 2D shape _____
- the opposite direction to the way hands move around a clock _____
- medicine that fights against bacteria _____
- not wanting to be around other people _____
- a substance in the body that fights diseases _____

Greek Roots astro, aster & Latin Roots ang, aqua, anim

7 **Match** the words to the meanings.

- | | |
|-------------|-----------------------------------|
| astronomy • | • bring to life |
| triangle • | • study of the solar system |
| aquarium • | • 2D shape with three angles |
| animate • | • tank that holds aquatic animals |

Root meanings:
astro, aster – star
ang – corner
aqua – water
anim – life



8 **Write** the words from the box to match the clues.

asterisk asteroid astronaut angle rectangle aqua animator animal

- | | |
|-------------------------|--|
| creature _____ | star-shaped symbol _____ |
| space traveller _____ | 2D shape with four angles _____ |
| a rock in space _____ | person who brings drawings to life _____ |
| blue-green colour _____ | measured in degrees _____ |

Challenge

Write the collective noun from the box for each group of animals. **Use** the clues to help you.

crash band gang dazzle caravan pack cackle barrel

- | | | | |
|-------------------------|-------------|---------------------|--|
| a _____ of zebras | impress | a _____ of wolves | rhymes with yak |
| a _____ of hyenas | laugh | a _____ of buffalo | contains  |
| a _____ of rhinoceroses | collide | a _____ of monkeys | wooden container |
| a _____ of camels | mobile home | a _____ of gorillas | musical group |



Segment the Focus Words. Highlight the grapheme for .

drank

scratch

subtract

shallow

matter

chapter

happen

athlete

ankle

angry

attack

balance

backwards

annual

parallel

diagram

diagonal

diameter

antibody

angle

rectangle

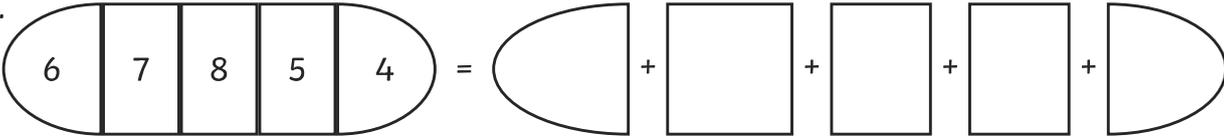
animate

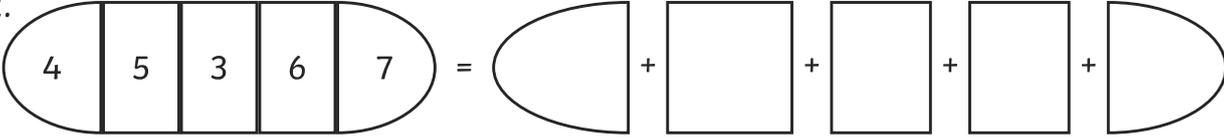
animal

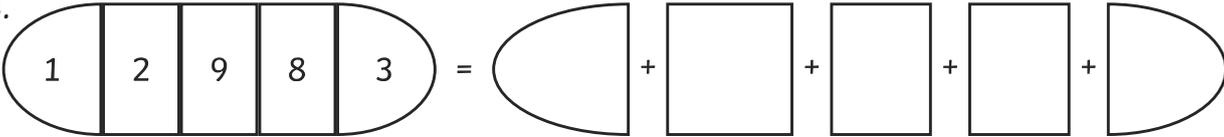
asteroid

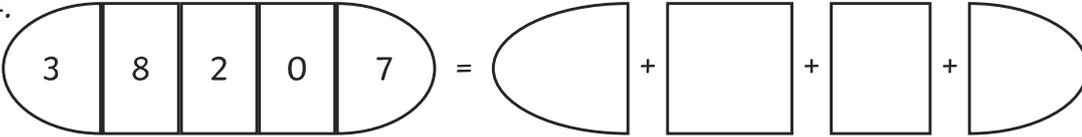
astronaut

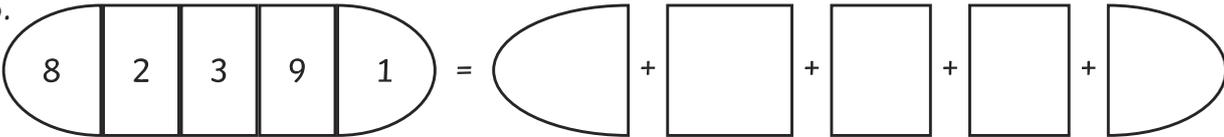
Number Partitioning

1. 

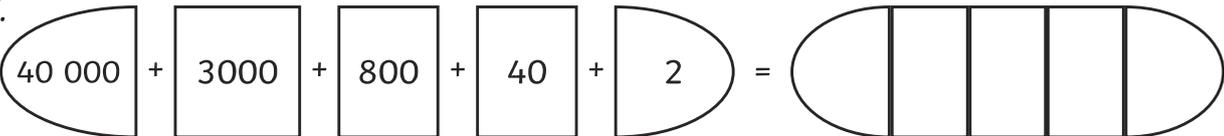
2. 

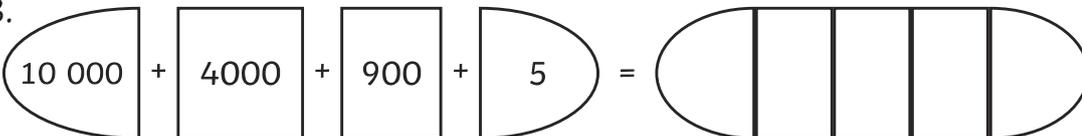
3. 

4. 

5. 

6. 

7. 

8. 

9. 