



# St. Antony's Catholic College

Aspire - Believe - Achieve

## Year 7 Science – Zones 1&2

*Instructions for the week beginning Monday 20<sup>th</sup> April 2020*

If you've any issues with this work your assigned teachers to by email are:

7A and 7M – Mr Hunt at [G.Hunt@st-antony.com](mailto:G.Hunt@st-antony.com)

7B, C and W – Mr Parker-Smith at [G.Parker-Smith@st-antony.com](mailto:G.Parker-Smith@st-antony.com)

### Watch

Watch: [https://www.youtube.com/watch?v=\\_649VtZQMol](https://www.youtube.com/watch?v=_649VtZQMol)

### Read

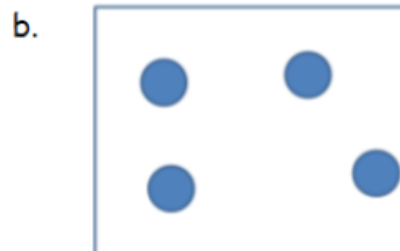
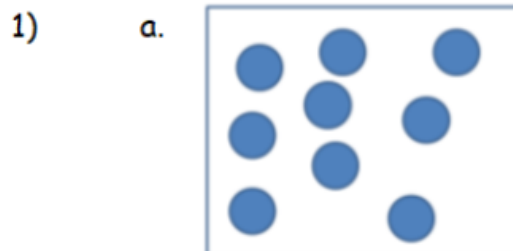
Read pages 100-101 of your Exploring Science textbook (penguins on the front)

### Do

### Gas pressure

Gases are made up of p \_\_\_\_\_ that are moving all over. These particles bump into each other and hit the sides of a container. This force causes p \_\_\_\_\_. If m \_\_\_\_\_ particles hit the inside of a container, the pressure i \_\_\_\_\_.

For each set of diagrams below, state which had the highest pressure and explain why.



Highest pressure? \_\_\_\_\_

Why? \_\_\_\_\_

\_\_\_\_\_

2. Complete the table below.

Volume of air in tyre (cm <sup>3</sup> )	Pressure of air in tyres (N/cm <sup>2</sup> )
100	8
200	16
300	24
400	
500	40

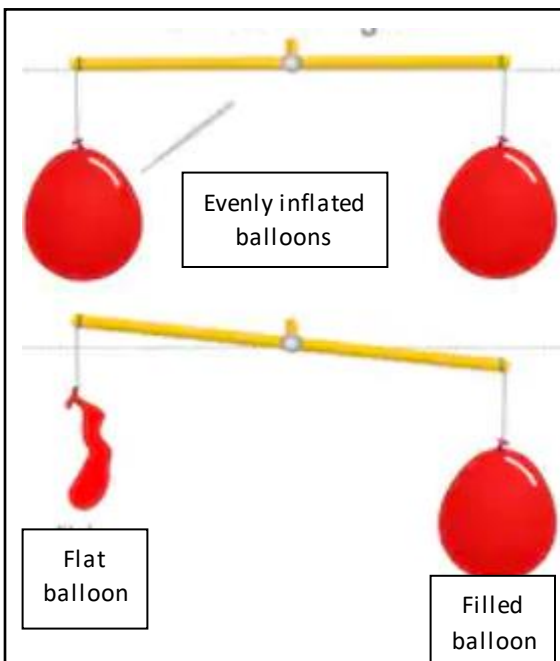
Tables present data and help us to answer questions and see patterns in results.

1. Look at the table above. What does it tell us?

.....

.....

3. Does AIR weigh anything?



The balloons here are on either end of a balancing scale.

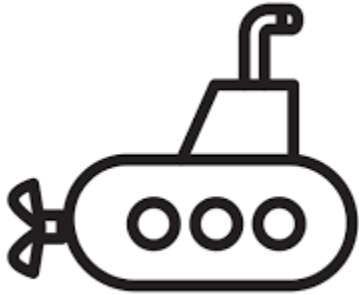

BOTH balloons at the top are inflated with the same amount of air.

The right balloon at the bottom is inflated and the left balloon is deflated.

1. Which balloon is the heaviest?
2. This means air has a weight to it.

True                  False

4. Draw arrows on the diagrams below to show the pressure acting both inside and outside.

<p>A submarine underwater.</p> 	<p>A fully inflated balloon.</p> 
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Complete **questions 2, 5 and 6** on pg 100-101 on Pressure problems.

The answers to these questions will be posted on SMHW on the afternoon of Friday 24<sup>th</sup>.

Go to: <https://quizlet.com/103608522/pressure-flash-cards/>

Complete the learn activity and then the test.

**Fantastic Friday** – Please email Mrs Wright (f.wright@st-antonys.com) by 12pm on a Friday if you'd like to share some of your best work of the week with her. She'd love to see it!