Google Slides Lessons Preview

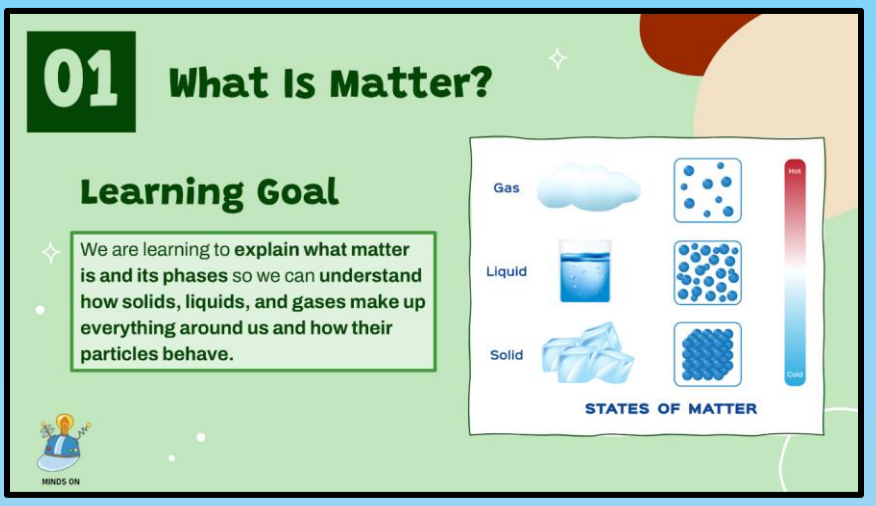
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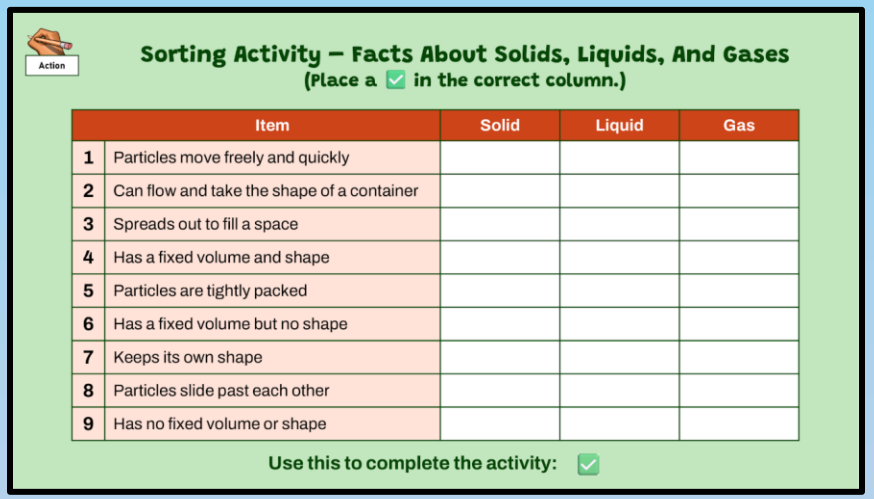
Alberta Science Matter Unit – Grade 5

3-Part Lesson Format

Part 1 – Minds On!

- Learning Goals
- Discussion Questions
- Quotes
- And More!



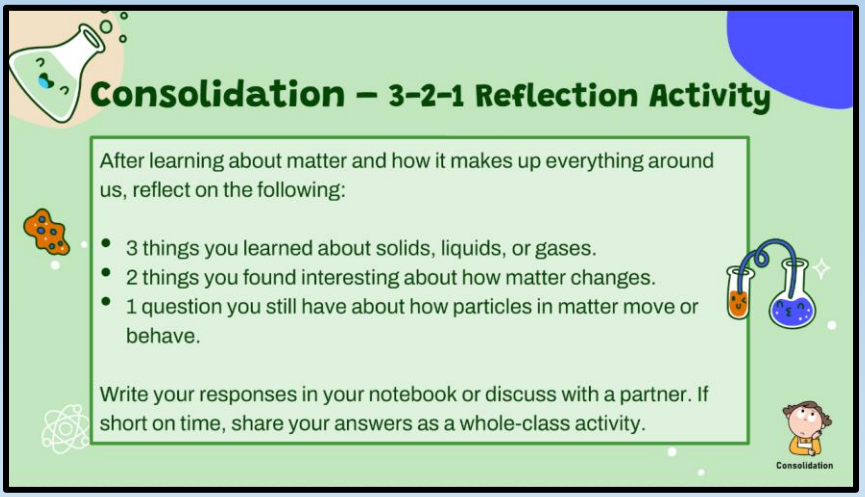


Part 2 – Action!

- Writing
- Matching
- Drag and Drop
- Drawing
- And More!

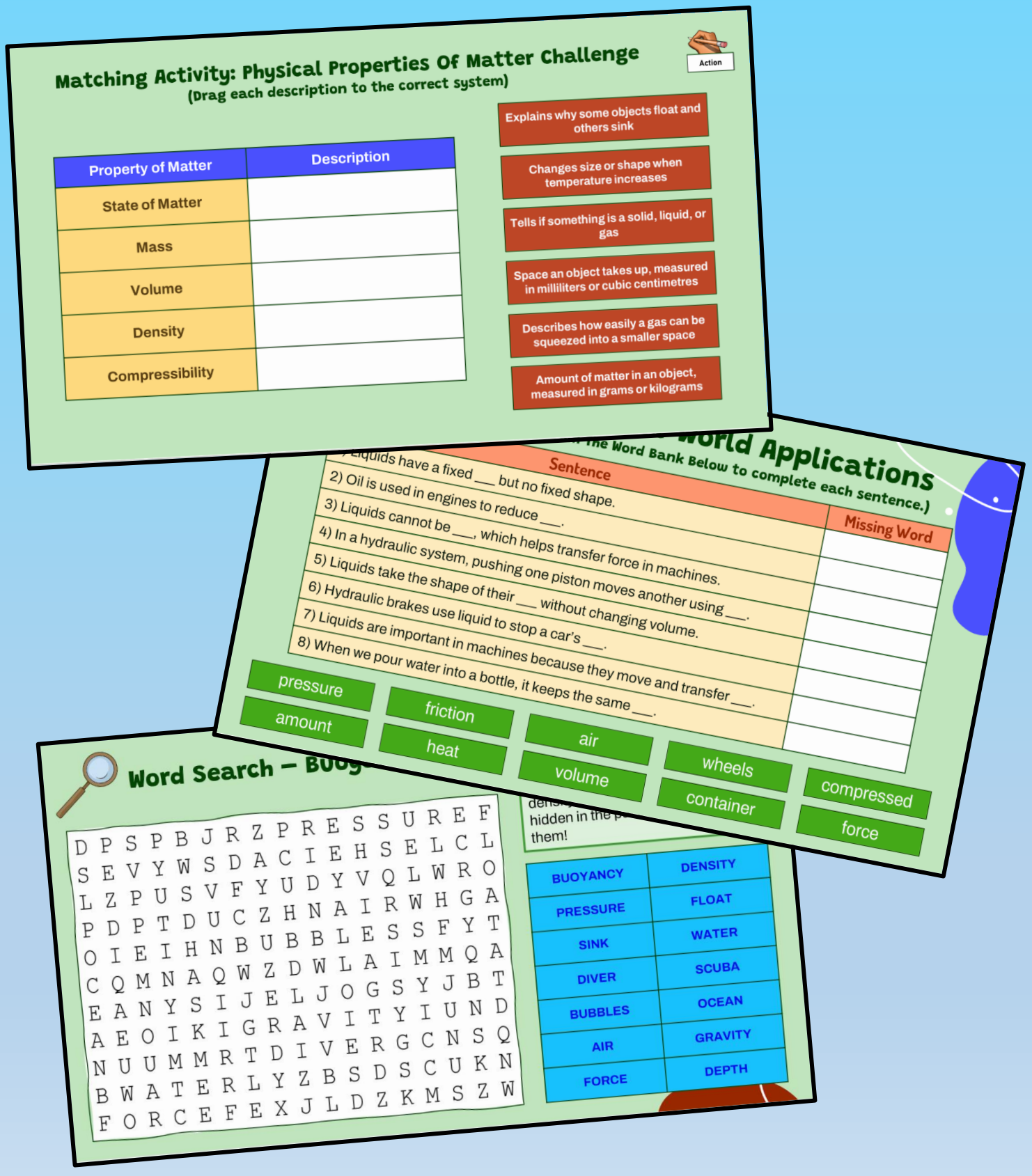
Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!



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Alberta Science Matter Unit – Grade 5



Matching Activity: Physical Properties Of Matter Challenge

(Drag each description to the correct system)

Action

Property of Matter	Description
State of Matter	
Mass	
Volume	
Density	
Compressibility	

- Explains why some objects float and others sink
- Changes size or shape when temperature increases
- Tells if something is a solid, liquid, or gas
- Space an object takes up, measured in milliliters or cubic centimetres
- Describes how easily a gas can be squeezed into a smaller space
- Amount of matter in an object, measured in grams or kilograms

World Applications

the Word Bank Below to complete each sentence.)

Sentence	Missing Word
Liquids have a fixed ___ but no fixed shape.	
2) Oil is used in engines to reduce ___.	
3) Liquids cannot be ___, which helps transfer force in machines.	
4) In a hydraulic system, pushing one piston moves another using ___.	
5) Liquids take the shape of their ___ without changing volume.	
6) Hydraulic brakes use liquid to stop a car's ___.	
7) Liquids are important in machines because they move and transfer ___.	
8) When we pour water into a bottle, it keeps the same ___.	

pressure, friction, air, wheels, compressed, amount, heat, volume, container, force

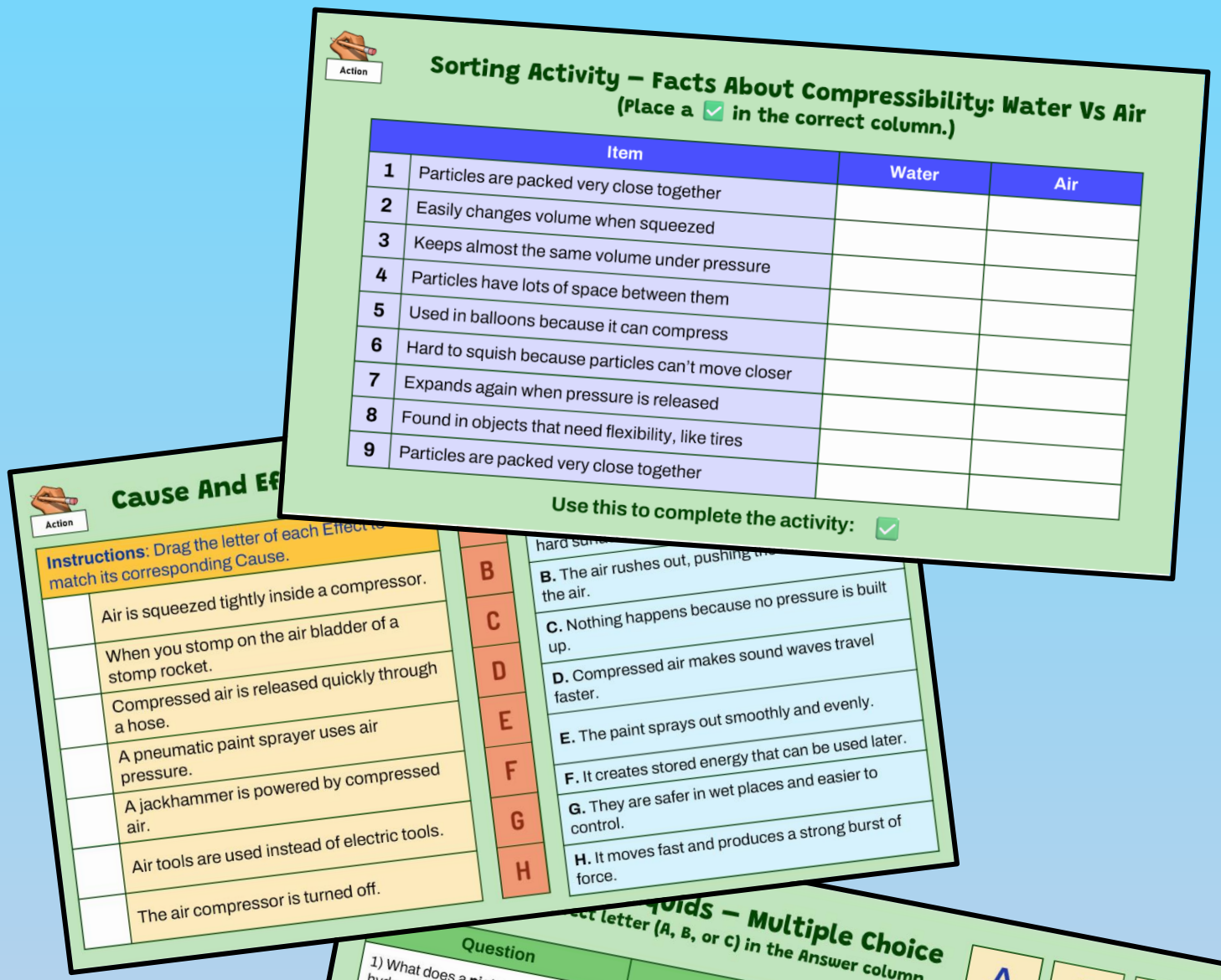
Word Search – Buoy

hidden in the p… them!

D P S P B J R Z P R E S S U R E F
S E V Y W S D A C I E H S E L C L
L Z P U S V F Y U D Y V Q L W R O
P D P T D U C Z H N A I R W H G A
O I E I H N B U B B L E S S F Y T
C Q M N A Q W Z D W L A I M M Q A
E A N Y S I J E L J O G S Y J B T
A E O I K I G R A V I T Y I U N D
N U U M M R T D I V E R G C N S Q
B W A T E R L Y Z B S D S C U K N
F O R C E F E X J L D Z K M S Z W

BUOYANCY, DENSITY, PRESSURE, FLOAT, SINK, WATER, DIVER, SCUBA, BUBBLES, OCEAN, AIR, GRAVITY, FORCE, DEPTH

Alberta Science Matter Unit – Grade 5



Action

Sorting Activity – Facts About Compressibility: Water Vs Air

(Place a ✅ in the correct column.)

	Item	Water	Air
1	Particles are packed very close together		
2	Easily changes volume when squeezed		
3	Keeps almost the same volume under pressure		
4	Particles have lots of space between them		
5	Used in balloons because it can compress		
6	Hard to squish because particles can't move closer		
7	Expands again when pressure is released		
8	Found in objects that need flexibility, like tires		
9	Particles are packed very close together		

Use this to complete the activity: ✅

Action

Cause And Ef

Instructions: Drag the letter of each Effect to match its corresponding Cause.

	Air is squeezed tightly inside a compressor.
	When you stomp on the air bladder of a stomp rocket.
	Compressed air is released quickly through a hose.
	A pneumatic paint sprayer uses air pressure.
	A jackhammer is powered by compressed air.
	Air tools are used instead of electric tools.
	The air compressor is turned off.

B
C
D
E
F
G
H

hard su

B. The air rushes out, pushing th the air.

C. Nothing happens because no pressure is built up.

D. Compressed air makes sound waves travel faster.

E. The paint sprays out smoothly and evenly.

F. It creates stored energy that can be used later.

G. They are safer in wet places and easier to control.

H. It moves fast and produces a strong burst of force.

uids – Multiple Choice

ct letter (A, B, or C) in the Answer column

A B C

Question	A	B	C	Answer
1) What does a **piston** do in a hydraulic system?	Stores extra water	Pushes liquid to move objects	Measures pressure	
2) Why are **liquids** better than air in hydraulics?	They don't compress easily	They're lighter than air	They move faster	
3) What happens when pressure is added to water in a **closed system**?	The pressure spreads evenly	The liquid disappears	The water freezes	
4) Which machine uses **hydraulics** to work?	Wind turbine	Bicycle chain	Car brake	
5) Why can't water be easily **compressed**?	It changes shape quickly	Its particles are tightly packed	It contains air bubbles	
6) What is **hydraulics** the study of?	Liquids in motion	Air pressure	Sound waves	