Google Slides Lessons Preview

© Super Simple Sheets

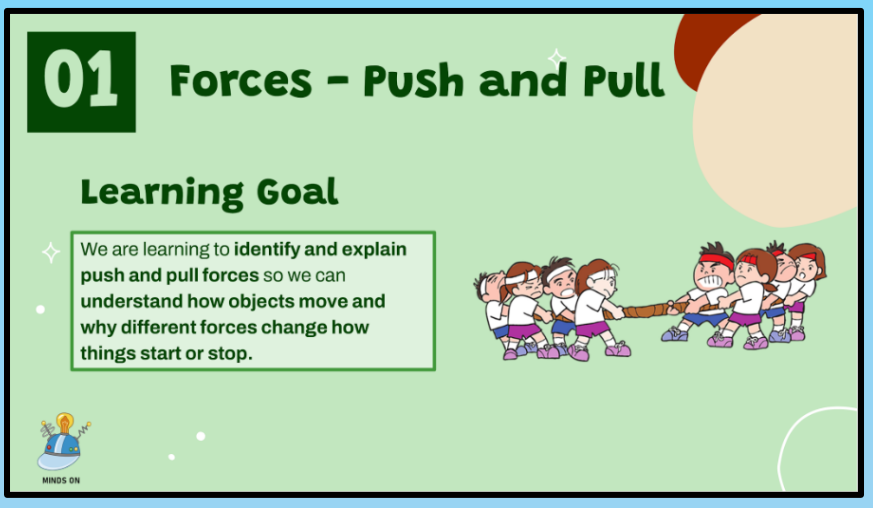
Alberta Science Curriculum

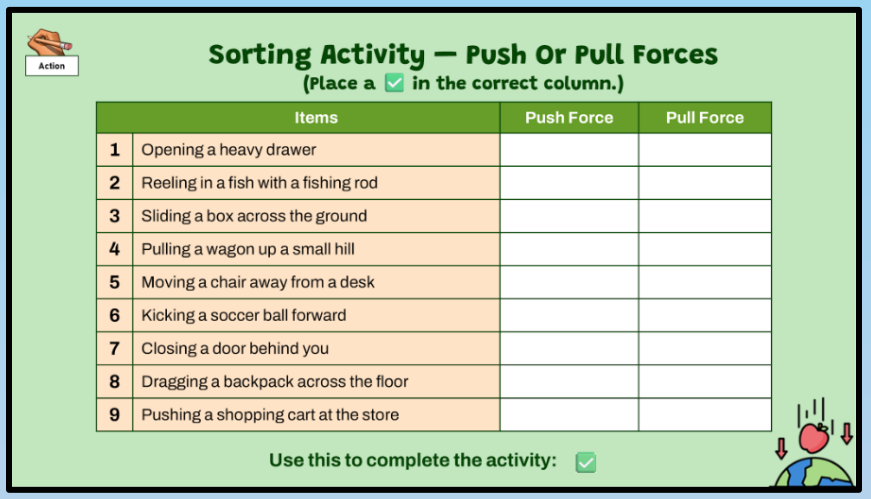
Energy Non-Contact Forces – Grade 4

3-Part Lesson Format

Part 1 – Minds On!

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



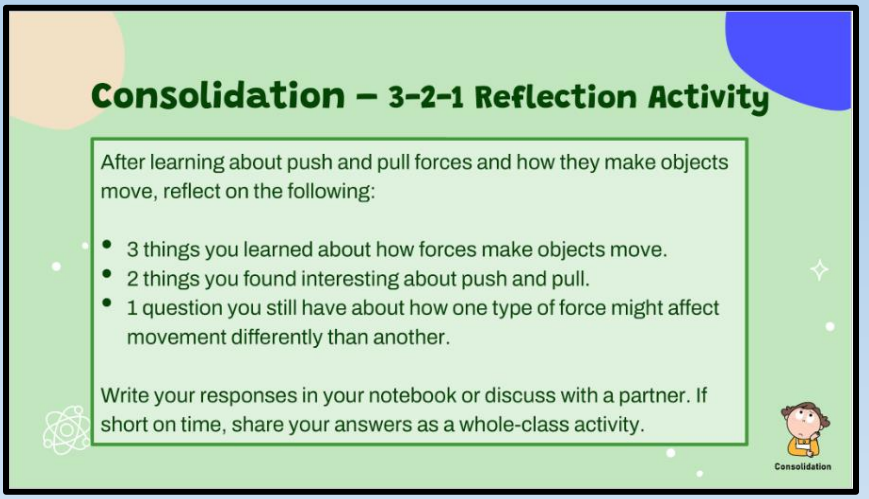


Part 2 – Action!

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

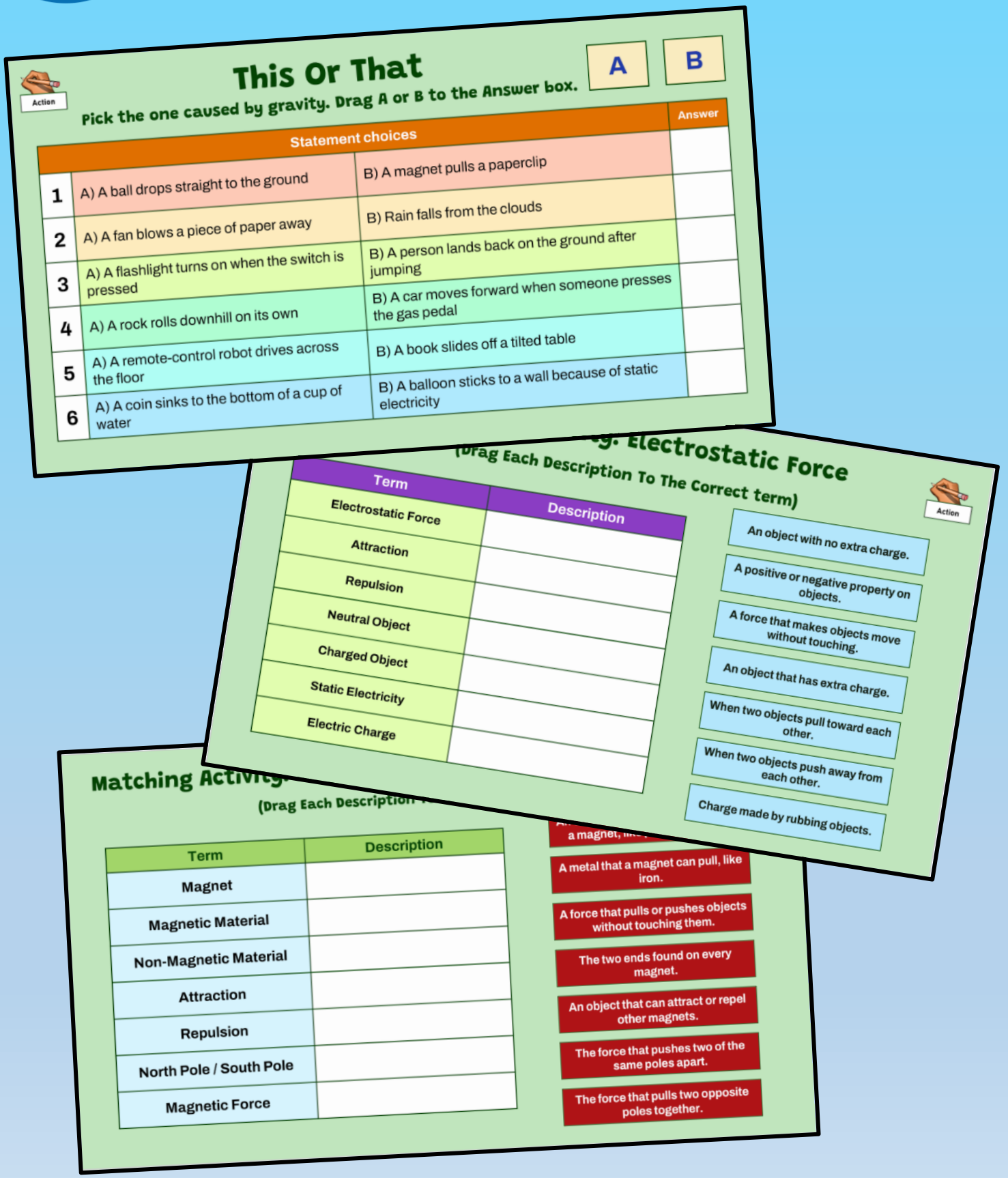
Part 3 – Consolidation!

- Exit Cards
- Quizzes
- Reflection
- And More!



Alberta Science Curriculum

Energy Non-Contact Forces – Grade 4



This Or That

Action

Pick the one caused by gravity. Drag A or B to the Answer box.

A B

	Statement choices		Answer
1	A) A ball drops straight to the ground	B) A magnet pulls a paperclip	
2	A) A fan blows a piece of paper away	B) Rain falls from the clouds	
3	A) A flashlight turns on when the switch is pressed	B) A person lands back on the ground after jumping	
4	A) A rock rolls downhill on its own	B) A car moves forward when someone presses the gas pedal	
5	A) A remote-control robot drives across the floor	B) A book slides off a tilted table	
6	A) A coin sinks to the bottom of a cup of water	B) A balloon sticks to a wall because of static electricity	

Electrostatic Force

(Drag Each Description To The Correct term)

Action

Term	Description
Electrostatic Force	
Attraction	
Repulsion	
Neutral Object	
Charged Object	
Static Electricity	
Electric Charge	

An object with no extra charge.

A positive or negative property on objects.

A force that makes objects move without touching.

An object that has extra charge.

When two objects pull toward each other.

When two objects push away from each other.

Charge made by rubbing objects.

Matching Activity

(Drag Each Description

Term	Description
Magnet	
Magnetic Material	
Non-Magnetic Material	
Attraction	
Repulsion	
North Pole / South Pole	
Magnetic Force	

a magnet, like

A metal that a magnet can pull, like iron.

A force that pulls or pushes objects without touching them.

The two ends found on every magnet.

An object that can attract or repel other magnets.

The force that pushes two of the same poles apart.

The force that pulls two opposite poles together.

Alberta Science Curriculum

Energy Non-Contact Forces – Grade 4



Word Search – Magnetizing An Object

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

Find the words related to magnets and magnetizing hidden in the puzzle and circle them!

MAGNET	SOUTH
PAPERCLIP	ATTRACT
RUBBING	PUSH
STRIKING	PULL
METAL	TEMPORARY
POLES	FORCE
NORTH	MAGNETIC

Action

1) A compass has a small _____ inside that moves to
2) The Earth has a _____ that pulls on the compass needle.
3) The red end of the compass needle points toward _____.
4) A compass works because the needle is made of _____ metal.
5) Explorers used compasses to find their _____ on long trips.
6) A compass near a large piece of _____ can point the wrong way.
7) A compass must be held _____ so the needle can move freely.
8) The Earth acts like a giant _____ with two poles.

point | position | needle | north | magnet
metal | flat | Vertically | magnetic field | steel

ices Using Non-Contact Forces

Check **True** Or **False** For Each Statement Based On What You Learned.

	True/False
1) Magnets can pull certain metals without touching them.	
2) Static electricity can make paper move toward a balloon.	
3) A balance scale uses gravity to compare weight.	
4) All metals are attracted to magnets, including aluminum.	
5) A compass works because Earth has a magnetic field.	
6) Gravity pushes objects upward when they fall.	
7) Doorbells can use magnets to help make a ringing sound.	
8) Magnets attract objects made of iron or steel.	
9) Static electricity always works better when surfaces are wet.	
10) Gravity only affects objects that are very heavy.	

True | False