



# Balanced and unbalanced forces

Match the correct definition to the term.

strength

motion

balanced forces

push

unbalanced forces

force

pull

the process of moving or changing position

acts on objects as a push or a pull

a force moving something away from you

the amount of force that is applied to an object

have the same strength but act in opposite directions

a force moving something towards you

have different strengths and results in motion





# Balanced and unbalanced forces

What two things does a force always have? Circle the two correct answers.

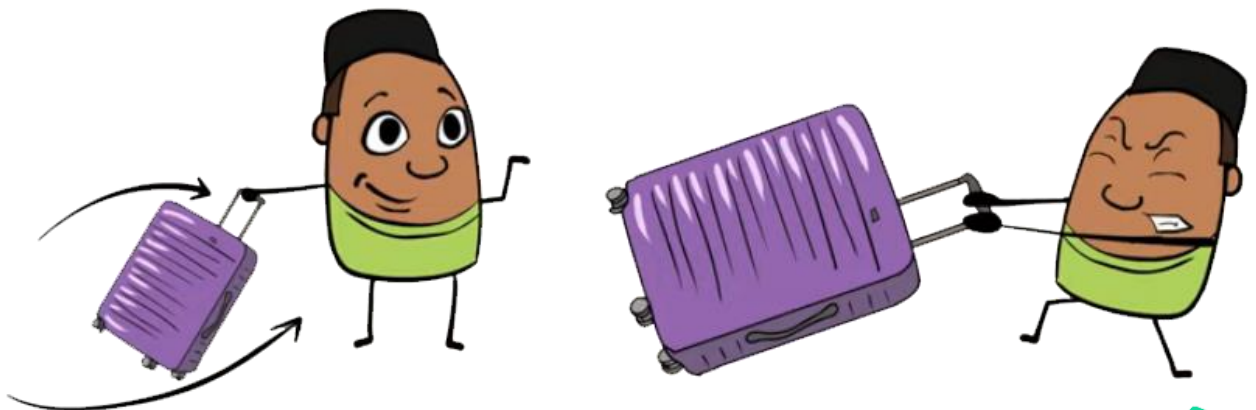
direction, force, motion,  
strength, mass, push, pull



Label the following examples as a weak force or a strong force

W = weak force    S = strong force

	W	S
hitting a baseball with a bat		
kicking in soccer ball softly		
throwing a football across a field with a lot of power		
tossing a bean bag to your friend		



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# Balanced and unbalanced forces

Draw a picture of a **balanced force**, label it, and explain what makes it a balanced force.

A large, hand-drawn rectangular box with a blue outline, intended for drawing a balanced force.

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Draw a picture of an **unbalanced force**, label it, and explain what makes it an unbalanced force.

A large, hand-drawn rectangular box with a green outline, intended for drawing an unbalanced force.

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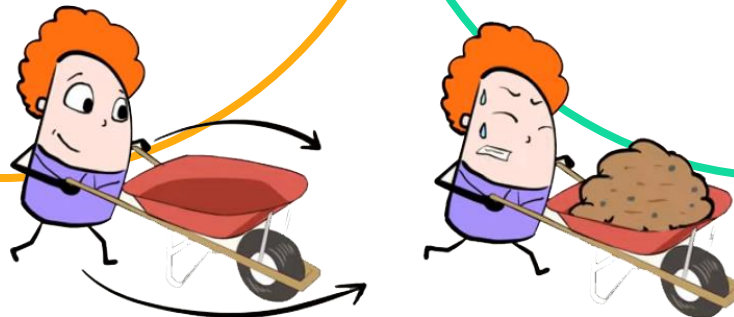
# Balanced and unbalanced forces

Cut and paste activity — cut the boxes on the next page and glue them in the correct part of the venn diagram

balanced forces

unbalanced forces

force

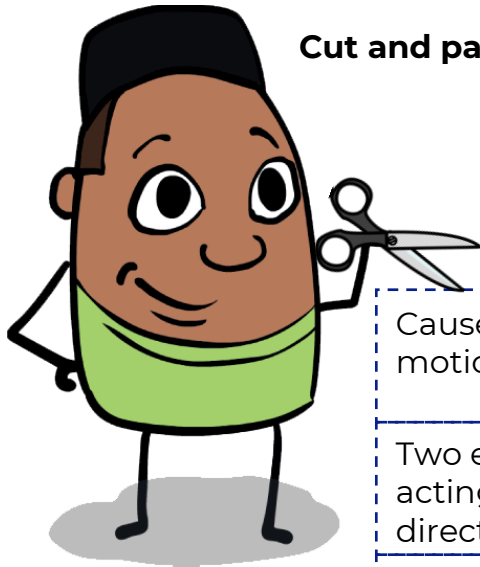


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# Balanced and unbalanced forces

## Cut and paste activity



Causes a change in the motion of an object.	Hanging and sitting objects are examples of these forces.
Two equal size forces acting in opposite directions on an object.	Does not cause a change in motion.
Causes the object to accelerate or decelerate.	This will cause a still object to go into motion.
Two forces acting on an object that are not equal.	Imagine a game of tug-of-war where one team pulls harder than the other. This causes one team to move toward the center.