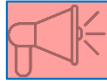


MASS (non-standard units)



<https://www.youtube.com/watch?v=pEot9b07lnk>



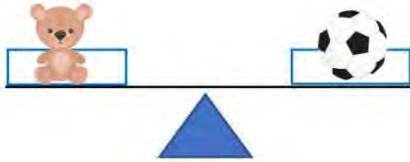
Find two things that are heavier than you are

Find two things that are lighter than you are

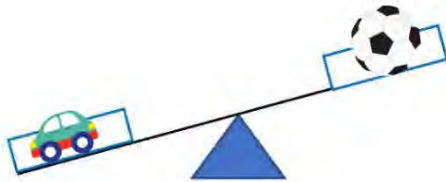
Draw a picture or write what they are

Heavier than me	Lighter than me

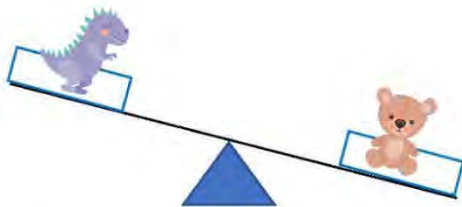
MASS (non-standard units)



- A balance is like a *see-saw*.
- If the mass on both sides of the balance is the same, the balance stays level.
- The balance is level, so the teddy and the football have the same mass.



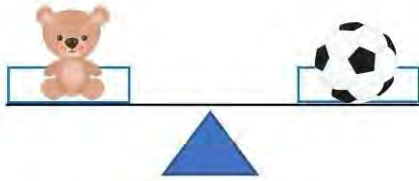
- If the mass on one side is more, that side goes down.
- That side is heavier than the other side.
- The toy car is heavier than the football.



- If the mass on one side is less, that side stays up.
- That side is lighter than the other side.
- The dinosaur is lighter than the teddy bear.

MASS (non-standard units)

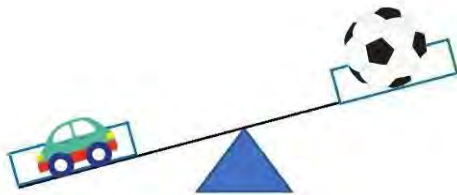
HEAVIER OR LIGHTER



Is one heavier? Which one?

Is one lighter? Which one?

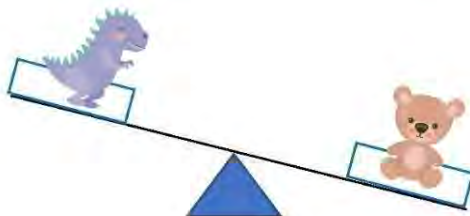
Are they the same weight?



Is one heavier? Which one?

Is one lighter? Which one?

Are they the same weight?



Is one heavier? Which one?

Is one lighter? Which one?

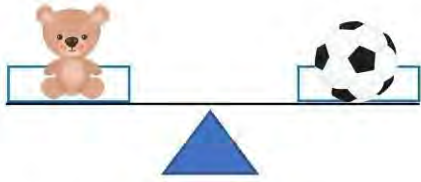
Are they the same weight?



MASS (non-standard units)

Answers

HEAVIER OR LIGHTER



Is one heavier? Which one?

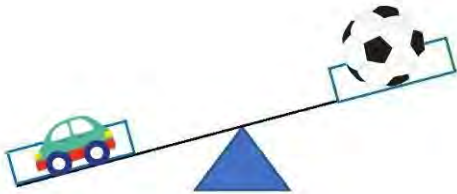
no

Is one lighter? Which one?

no

Are they the same weight?

yes



Is one heavier? Which one?

yes - car

Is one lighter? Which one?

yes - ball

Are they the same weight?

no



Is one heavier? Which one?

yes - teddy

Is one lighter? Which one?

yes - dinosaur

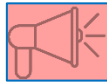
Are they the same weight?

no



MASS (non-standard units)

Using hands as a balance



<https://www.youtube.com/watch?v=z kayMXH5QIU>



Hold your arms out like a balance.

Place a little object that you think is heavy on one of your hands.

Place a little object that you think is light on the other hand.

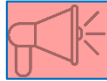
Can you feel which one is heavier? Which one is lighter?

Draw or write the name of the objects in the table below.

Do this again with 2 new objects.

Heavier	Lighter

MASS (non-standard units)



- Non-standard units are everyday objects like blocks, pasta pieces or coins
- They are called non-standard because the blocks, pasta pieces or coins one person uses may be a different mass to those of another person
- This means measurements may not exactly match
- Watch the videos to find out how to make a balance and then how to use it to measure with non-standard units

<https://www.youtube.com/watch?v=7nrkmUiw5Os>



<https://www.youtube.com/watch?v=3KcEoGgv1Do>



Measure using non-standard units

What are you measuring?	Non-standard unit	Guess how many units	How many units was it?
	blocks of the same size		
	coins of the same size		
	pasta pieces of the same size		

MASS (non-standard units)



MEASURING MASS USING A BALANCE AND NON-STANDARD UNITS



How many blocks does the teddy weigh?



How many crayons does the teddy weigh?



How many marbles does the teddy weigh?



MASS (non-standard units)

Answers

MEASURING MASS USING A BALANCE AND NON-STANDARD UNITS



How many blocks does the teddy weigh?

6



How many crayons does the teddy weigh?

9



How many marbles does the teddy weigh?

3