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Year 1 Maths Unit Mass

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Mass Words

Mass means how heavy or light an object is.

Heavy

- hard to lift or carry



Light

- easy to lift or carry



Heavier than

- has more mass



>



Lighter than

- has less mass



<



Same mass

- feels about equal



=



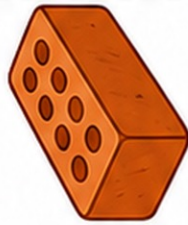
Compare mass by holding, lifting and checking.



Heavy or Light Sorting Mats

HEAVY

LIGHT



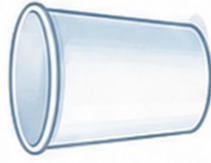
brick



feather



lunchbox
with food



empty
paper cup



full drink
bottle



cotton ball



school bag
with books



pencil

Sort each object onto the mat where it belongs.

Mass Compare Cards

1



dictionary / glue stick



2



full water bottle / empty cup



3



basketball / tissue



4



school bag with books / sunhat



5



lunchbox with food /
paper serviette



6



two similar apples



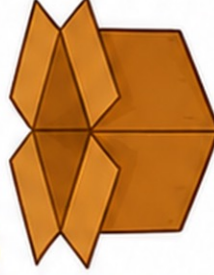
7



toy truck / toy car



8



large empty box /
small tin of soup



Pick a card. Predict. Hold or lift. Record: heavier, lighter or about the same.

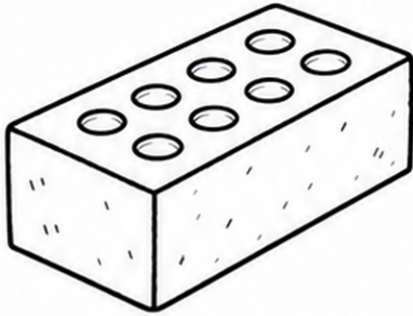


Name: _____

Heavy or Light?

Circle the correct word.

1.



1. A brick is heavy / light.

2.



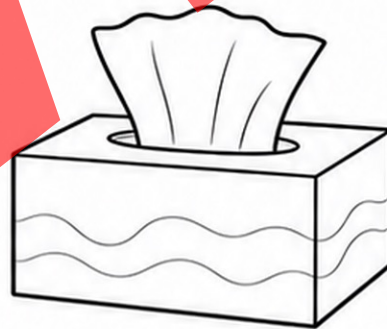
2. A feather is heavy / light.

3.



3. A full drink bottle is heavy / light.

4.



4. A tissue is heavy / light.

5.



5. A school bag with books is heavy / light.

6.



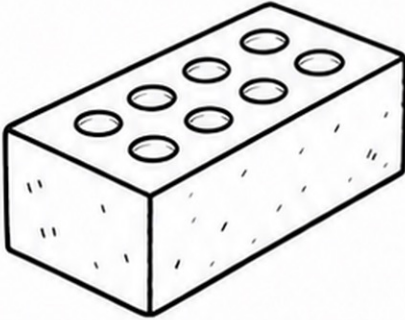
6. An empty paper cup is heavy / light.

Name: **ANSWERS**

Heavy or Light?

Circle the correct word.

1.



1. A brick is **heavy** / light.

2.



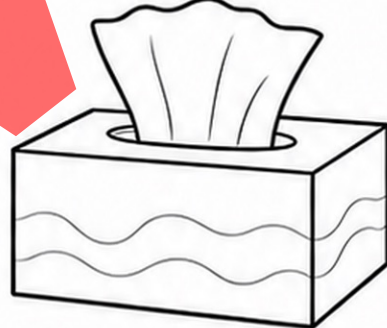
2. A feather is heavy / **light**.

3.



3. A full drink bottle is **heavy** / light.

4.



4. A tissue is heavy / **light**.

5.



5. A school bag with books is **heavy** / light.

6.



6. An empty paper cup is heavy / **light**.

Name: _____

Heavier or Lighter?

Circle the correct word.

1.



A dictionary is
heavier / lighter
than a pencil.

2.



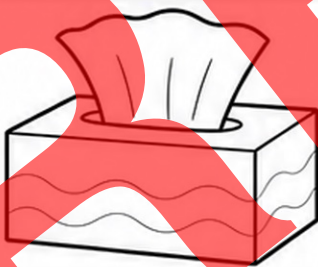
A feather is
heavier / lighter
than a lunchbox
with food.

3.



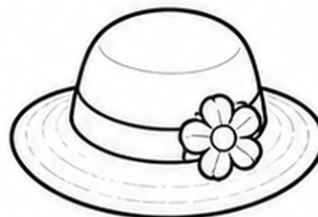
A full drink bottle is
heavier / lighter
than an empty cup.

4.



A tissue is
heavier / lighter
than a basketball.

5.



A school bag with
books is
heavier / lighter
than a sunhat.

6.



A toy car is
heavier / lighter
than a toy truck.

Name: **ANSWERS**

Heavier or Lighter?

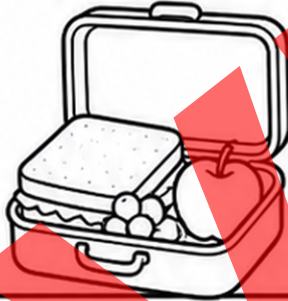
Circle the correct word.

1.



A dictionary is
heavier / lighter
than a pencil.

2.



A feather is
heavier / **lighter**
than a lunchbox
with food.

3.



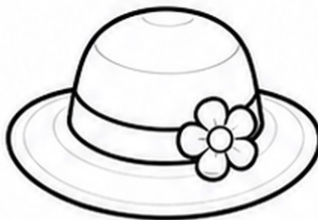
A full drink bottle is
heavier / lighter
than an empty cup.

4.



A tissue is
heavier / **lighter**
than a basketball.

5.



A school bag with
books is
heavier / lighter
than a sunhat.

6.



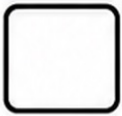
A toy car is
heavier / **lighter**
than a toy truck.

Name: _____

Compare the Mass

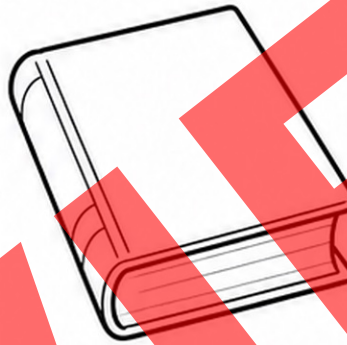
Tick the heavier object. Then finish the sentence.

1.



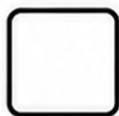
The _____ is
heavier than the _____.

2.



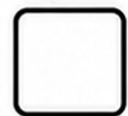
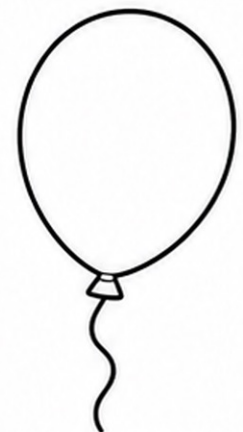
The _____ is
heavier than the _____.

3.



The _____ is
heavier than the _____.

4.



The _____ is
heavier than the _____.

Name: ANSWERS

Compare the Mass

Tick the heavier object. Then finish the sentence.

1.



The full water bottle is
heavier than the empty water bottle.

2.



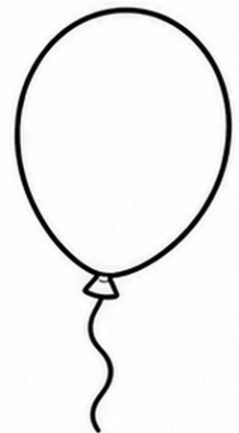
The book is
heavier than the paper.

3.



The tin of soup is
heavier than the empty box.

4.



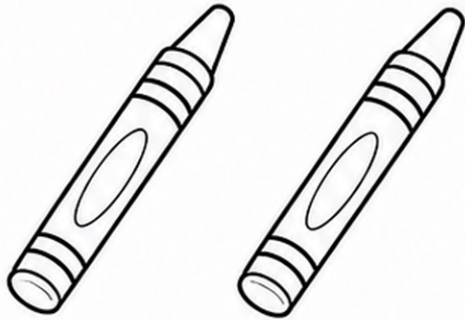
The basketball is
heavier than the balloon.

Name: _____

Same Mass?

Tick pairs that could have about the same mass.
Cross pairs that probably do not.

1.

☐

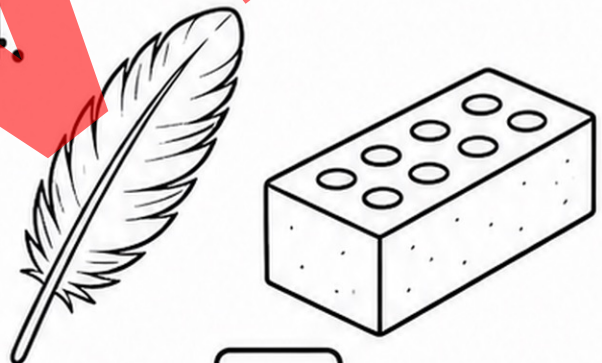
2.

☐

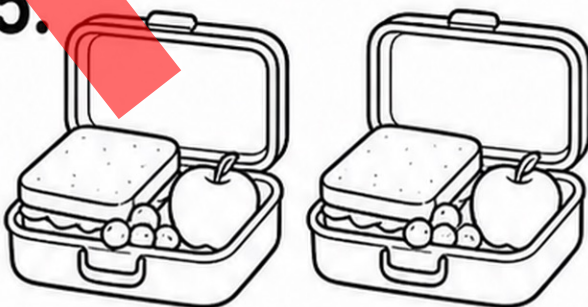
3.

☐

4.

☐

5.

☐

6.

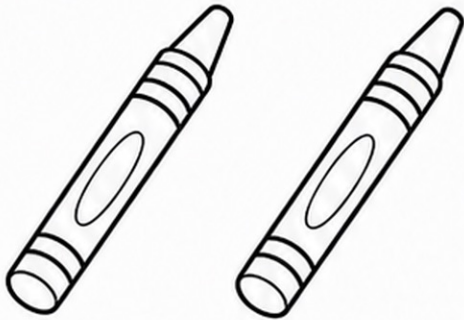
☐

Name: **ANSWERS**

Same Mass?

Tick pairs that could have about the same mass.
Cross pairs that probably do not.

1.



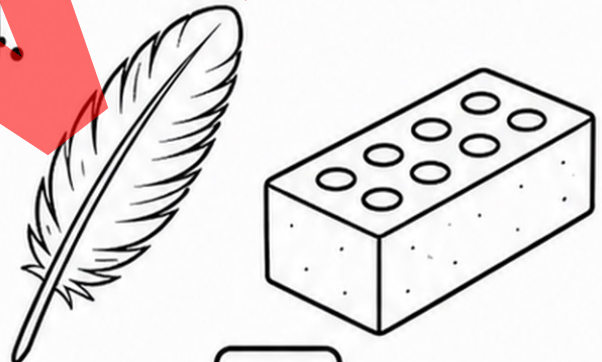
2.



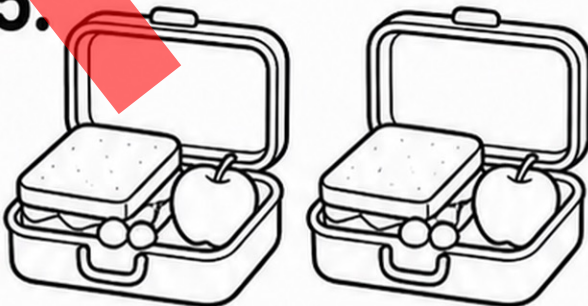
3.



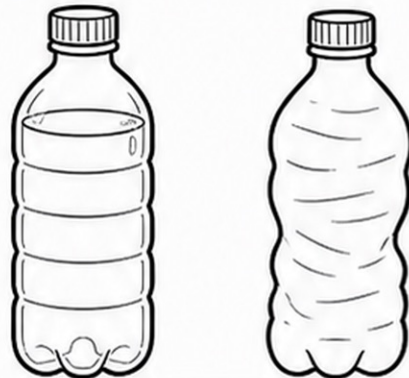
4.



5.



6.

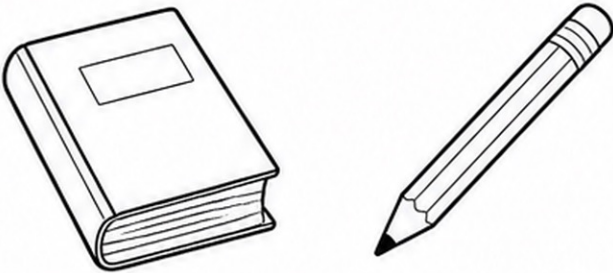


Name: _____

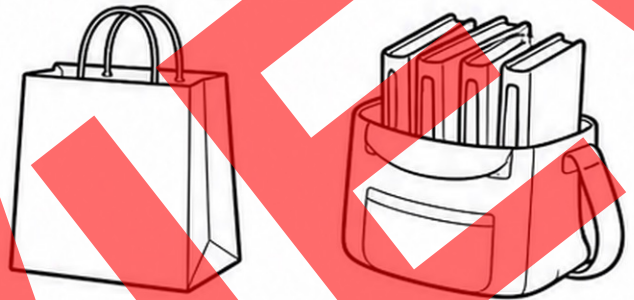
Mass in Everyday Life

Read each question. Write, tick or draw your answer.

1. You are packing your bag. Which is heavier: reader or pencil?



2. Which is lighter: paper bag or bag of books?



3. Tick two objects that would be hard to carry:



feather

☐

full shopping bag

☐

brick

☐

empty cup

☐

4. Draw one object that is heavy.

A large blank rectangular area for drawing a heavy object.

5. Draw one object that is light.

A large blank rectangular area for drawing a light object.

6. I can compare mass by

A horizontal line for writing.

Name: ANSWERS

Mass in Everyday Life

Read each question. Write, tick or draw your answer.

1. You are packing your bag. Which is heavier: reader or pencil?



reader

2. Which is lighter: paper bag or bag of books?



paper bag

3. Tick two objects that would be hard to carry:



feather

☐

full shopping bag

☒

brick

☒

empty cup

☐

4. Draw one object that is heavy.

Answers will vary,
e.g. brick.

5. Draw one object that is light.

Answers will vary,
e.g. feather.

6. I can compare mass by

holding and lifting

Name: _____

Mass Check-In

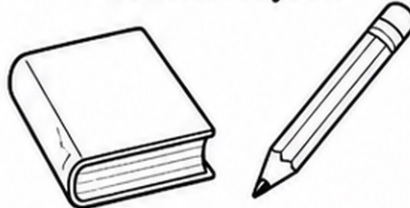
Show what you know about mass.

1. True or false?

Mass tells us how heavy or light something is.

True / False

2. Circle the heavier object:



book / pencil

3. Circle the lighter object:



shoe / sock

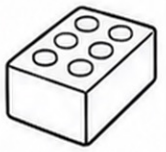
4. Circle the correct word:



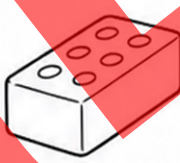
A full lunchbox is heavier / lighter than an empty lunchbox.



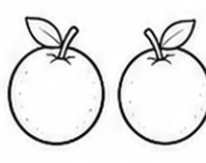
5. Tick two objects that could be light:

☐☐☐☐

6. Tick two objects that could be heavy:

☐☐☐☐

7. Tick the pair that could have about the same mass:

☐☐☐

8. Draw one heavy object and one light object.

heavy object

light object

9. How could you check which object is heavier?
Write or draw.

Name: **ANSWERS**

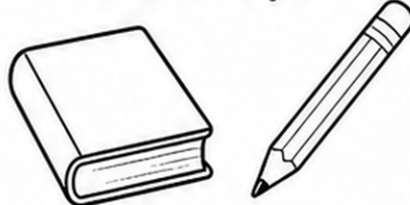
Mass Check-In

Show what you know about mass.

1. True or false?
Mass tells us how heavy or light something is.

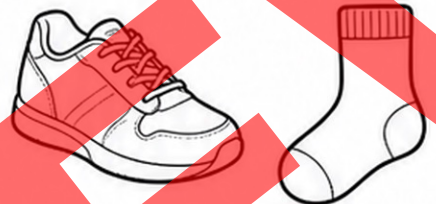
True / False

2. Circle the heavier object:



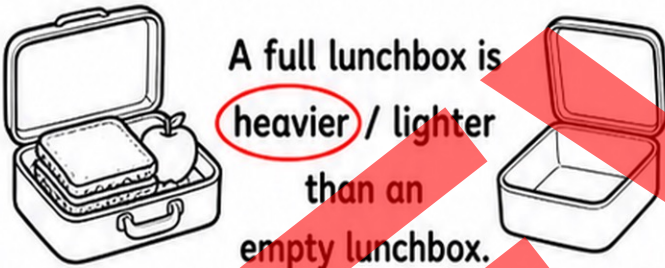
book / pencil

3. Circle the lighter object:



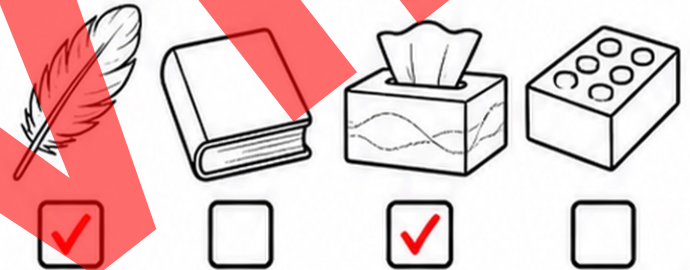
shoe / **sock**

4. Circle the correct word:

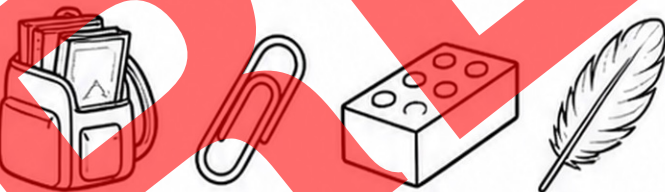


A full lunchbox is **heavier** / lighter than an empty lunchbox.

5. Tick two objects that could be light:



6. Tick two objects that could be heavy:

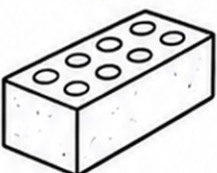


7. Tick the pair that could have about the same mass:



8. Draw one heavy object and one light object.

heavy: brick



heavy object

light: feather



light object

9. How could you check which object is heavier?
Write or draw.

Hold or lift both objects.

Year 1_Maths Unit_MASS Rubric

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
1. Understands mass as heavy and light	Needs support; limited or unsure response.	Shows some understanding with prompts.	Shows expected Year 1 understanding.	Works accurately and explains simply.	Applies ideas clearly and independently.
2. Uses mass language accurately	Needs support; limited or unsure response.	Shows some understanding with prompts.	Shows expected Year 1 understanding.	Works accurately and explains simply.	Applies ideas clearly and independently.
3. Compares objects by mass	Needs support; limited or unsure response.	Shows some understanding with prompts.	Shows expected Year 1 understanding.	Works accurately and explains simply.	Applies ideas clearly and independently.
4. Explains or checks comparisons	Needs support; limited or unsure response.	Shows some understanding with prompts.	Shows expected Year 1 understanding.	Works accurately and explains simply.	Applies ideas clearly and independently.
5. Applies mass thinking in familiar situations	Needs support; limited or unsure response.	Shows some understanding with prompts.	Shows expected Year 1 understanding.	Works accurately and explains simply.	Applies ideas clearly and independently.

Mass Year 1



Learning Goal

We can describe, compare and explain the mass of familiar objects.



What Is Mass?

Mass tells us how heavy or light an object is.



Heavy and Light

A heavy object can be hard to lift. A light object can be easy to lift.



Compare by Holding

We can hold two objects and feel which one has more mass.



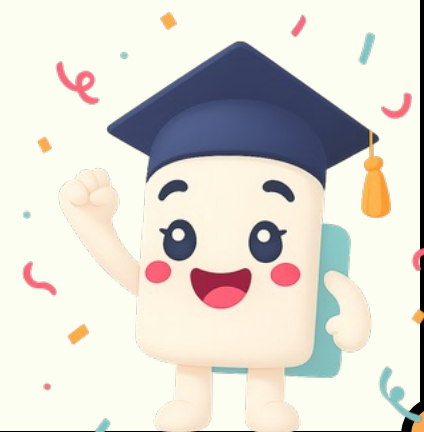
Heavier Than

A dictionary is usually heavier than a pencil.



Lighter Than

A feather is usually lighter than a lunchbox with food.



About the Same Mass

Two similar objects can feel about the same when we compare them carefully.



Looking Can Trick Us

A big empty box can be lighter than a small full tin.



Predict and Check

First predict. Then hold, lift or use a balance to check.



Mass Around School

We compare mass when we pack bags, carry books and move classroom tools.



Mass Words

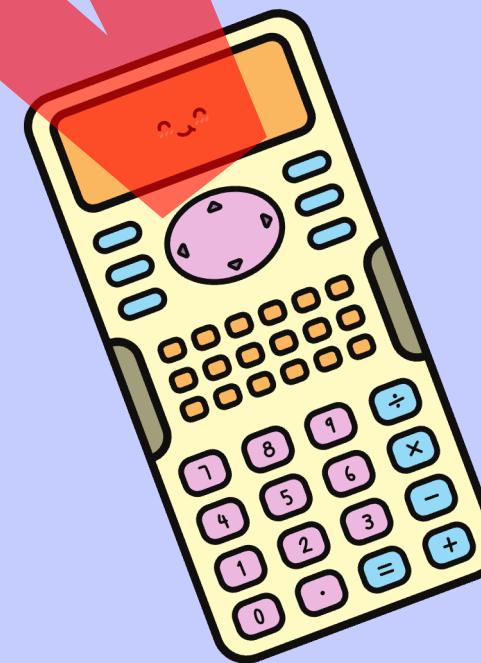
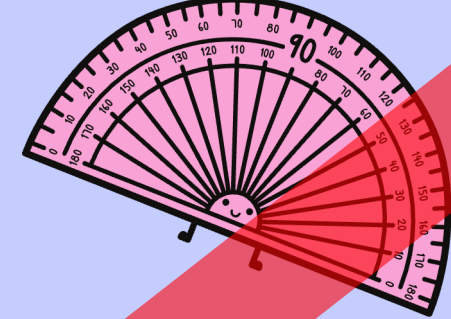
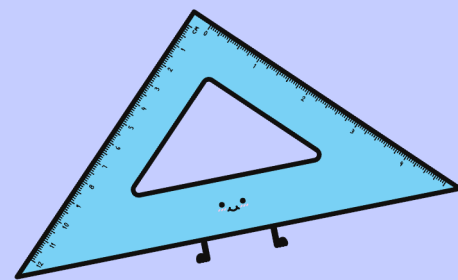
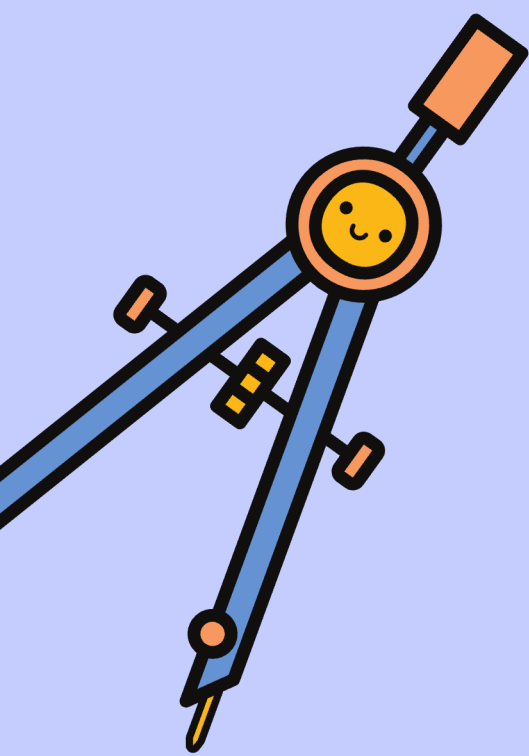
Use words such as heavy, light, heavier, lighter and about the same.



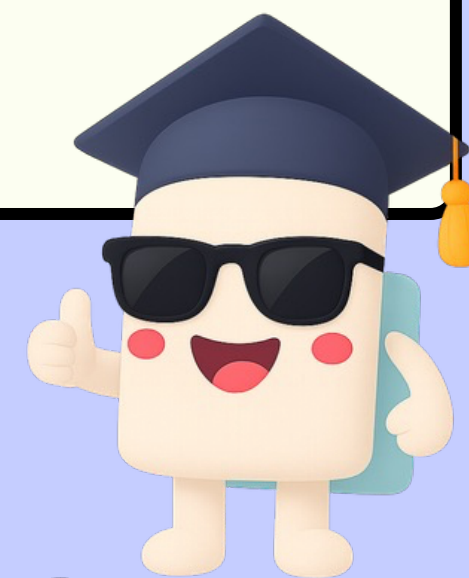
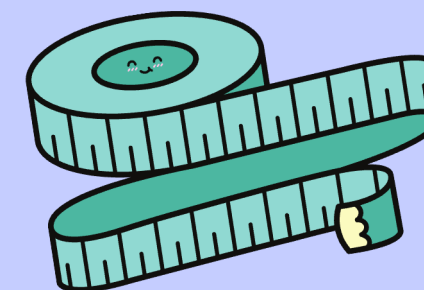
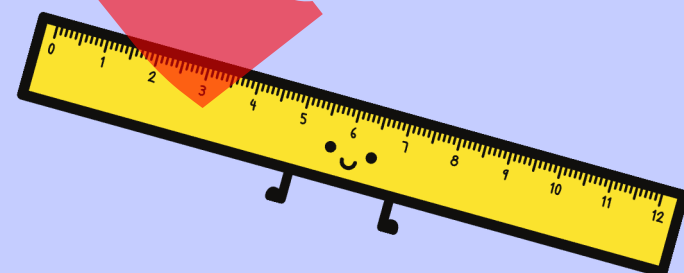
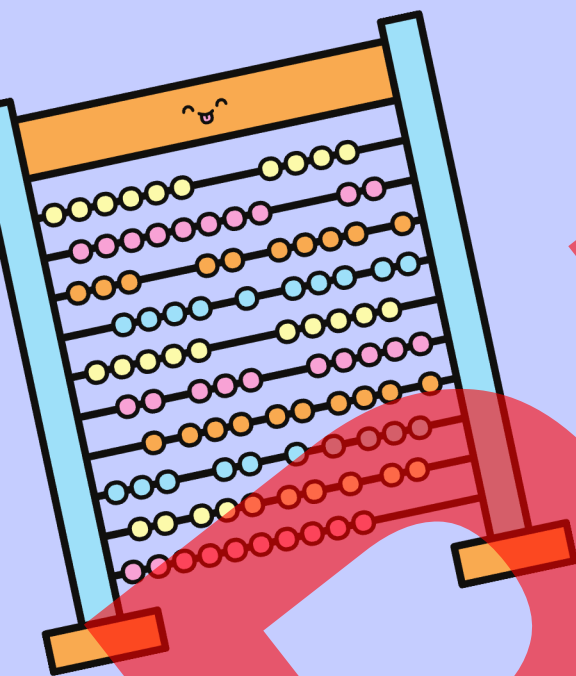
Review

Mass helps us make fair comparisons and explain our thinking.





Great Work!



Mass Quiz



Question 1

Question 1

True or false: Mass tells us how heavy or light something is.



Answer 1

Answer 1

True.



Question 2

Question 2

Which object is usually heavier?

A. feather

B. book

C. tissue

D. paper clip



Answer 2

Answer 2

B. book



Question 3

Question 3

Write the word for something that is easy to lift.



Answer 3

Answer 3

light



Question 4

Question 4

True or false: A full bottle is usually lighter than an empty bottle.



Answer 4

Answer 4

False.



Question 5

Question 5

Which object is usually lighter?

- A. brick
- B. lunchbox with food
- C. paper cup
- D. school bag with books



Answer 5

Answer 5

C. paper cup



Question 6

Question 6

Name one way to compare mass.



Answer 6

Answer 6

Hold, lift or use a balance.



Question 7

Question 7

Which pair could have about the same mass?

- A. two similar apples
- B. book and feather
- C. full bottle and empty bottle
- D. brick and tissue



Answer 7

Answer 7

A. two similar apples



Question 8

Question 8

True or false: Looking at size always tells us which object is heavier.



Answer 8

Answer 8

False.



Question 9

Question 9

Write one object that is usually heavy.



Answer 9

Answer 9

Example: brick, full school bag, book or full bottle.



Question 10

Question 10

A pencil is usually lighter than a ____.

A. dictionary

B. feather

C. tissue

D. paper clip



Answer 10

Answer 10

A. dictionary





Well Done!