

Varied Fluency

Step 3: Compare Mass

National Curriculum Objectives:

Mathematics Year 1: (1M1) [Compare, describe and solve practical problems for: lengths and heights \[for example, long/short, longer/shorter, tall/short, double/half\] mass/weight \[for example, heavy/light, heavier than, lighter than\] capacity and volume \[for example, full/empty, more than, less than, half, half full, quarter\] Time \[for example, quicker, slower, earlier, later\]](#)

Mathematics Year 1: (1M2) [Measure and begin to record: lengths and heights mass/weight capacity and volume time \(hours, minutes, seconds\)](#)

Differentiation:

Developing Questions to support comparing the mass of two objects measured using one type of non-standard unit where scales are balanced, or units of measure are equal.

Expected Questions to support comparing the mass of two objects measured using various non-standard units where scales are imbalanced and units of measure are unequal.

Greater Depth Questions to support comparing the mass of two objects measured using various non-standard units where the mass of an object is sometimes doubled or halved to find an answer.

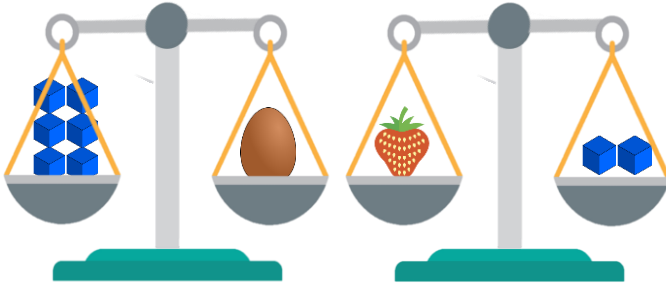
More [Y1 Weight and Volume](#) resources

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Compare Mass

Compare Mass

1a. Choose the word to complete the sentence below.



The  is than the .

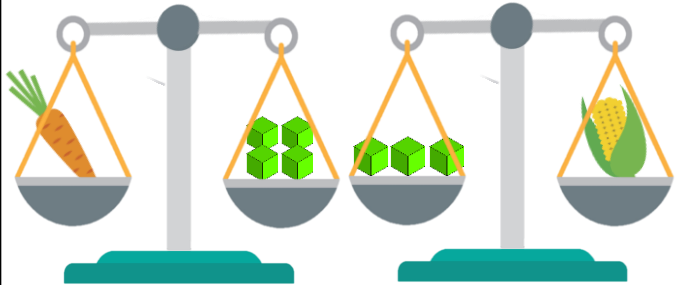
heavier

lighter



VF

1b. Choose the word to complete the sentence below.



The  is than the .

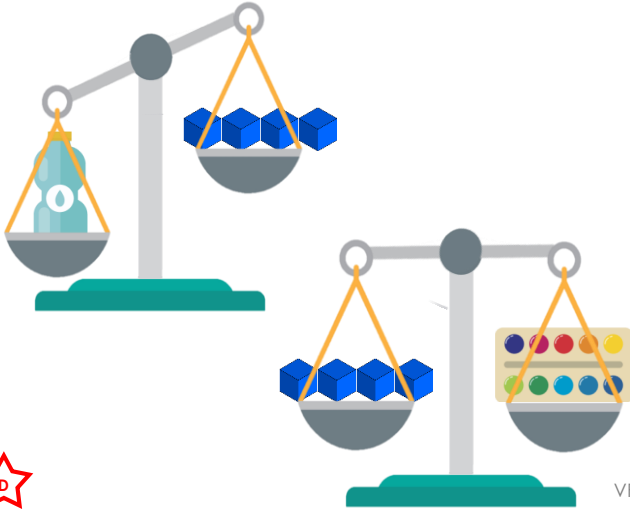
heavier

lighter



VF

2a. True or false? The bottle is lighter than the paint palette.



VF

2b. True or false? The scissors are lighter than the pepper.



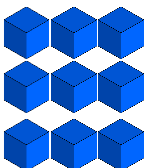
VF

3a. Order the objects, lightest to heaviest.

A.



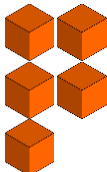
a pumpkin weighs



B.



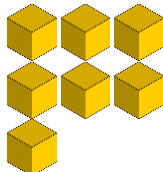
a pear weighs



C.



a football boot weighs



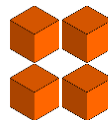
VF

3b. Order the objects, lightest to heaviest.

A.



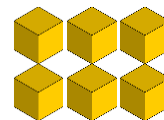
an apple weighs



B.



glue weighs



C.



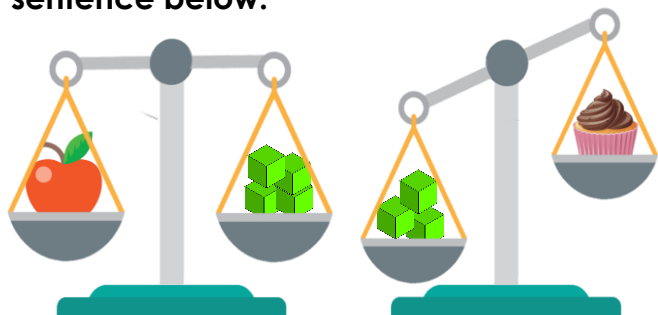
a bun weighs



VF

Compare Mass

4a. Choose the word to complete the sentence below.



The  is than the .

heavier

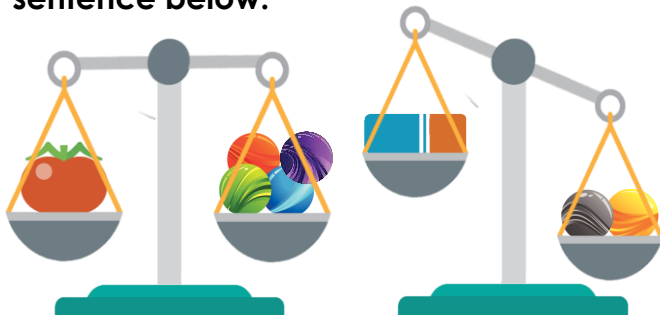
lighter



VF

Compare Mass

4b. Choose the word to complete the sentence below.



The  is than the .

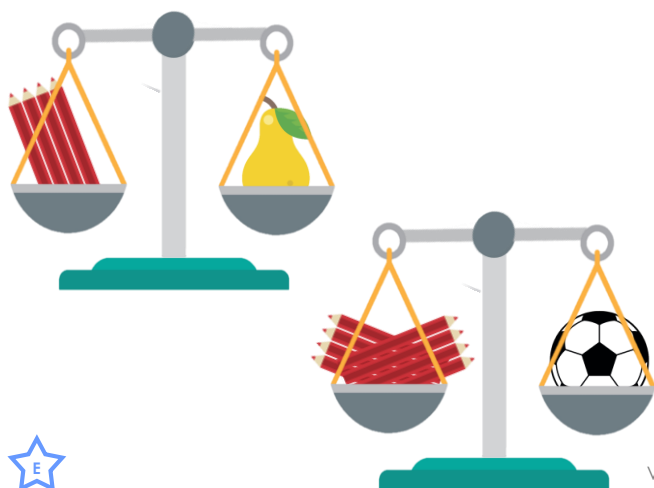
heavier

lighter



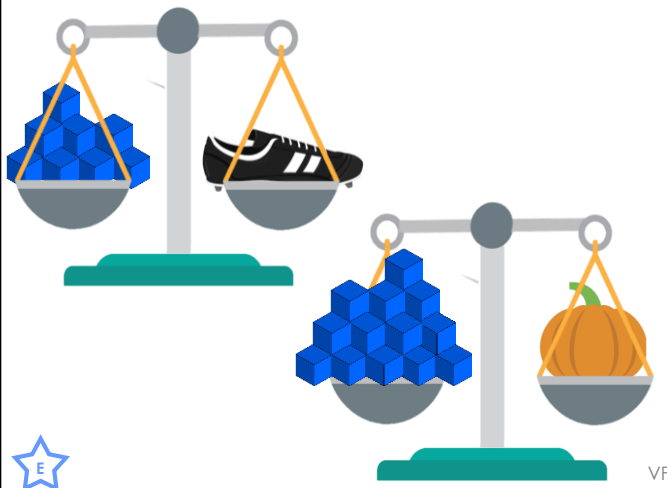
VF

5a. True or false? The pear is lighter than the ball.



VF

5b. True or false? The pumpkin is lighter than the football boot.



VF

6a. Order the objects, lightest to heaviest.

A.



sweetcorn
weigh

B.



scissors
weigh

C.



glue
weighs



2 marbles
heavier than
glue



VF

6b. Order the objects, lightest to heaviest.

A.



a paint
palette
weighs

B.



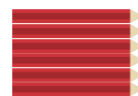
a pepper
weighs

C.



a full bottle
weighs

2 pencils
heavier than
pepper



VF

Compare Mass

Compare Mass

7a. Choose the word to complete the sentence below.



One  is than two .

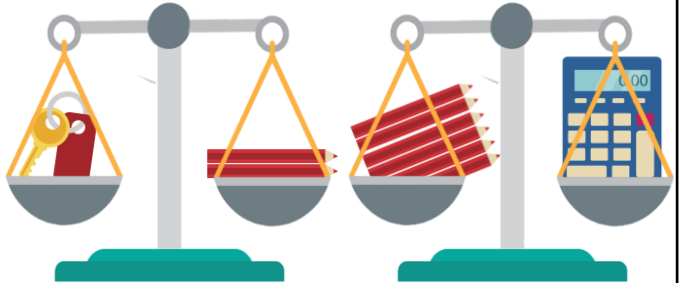
heavier

lighter



VF

7b. Choose the word to complete the sentence below.



One  is than two .

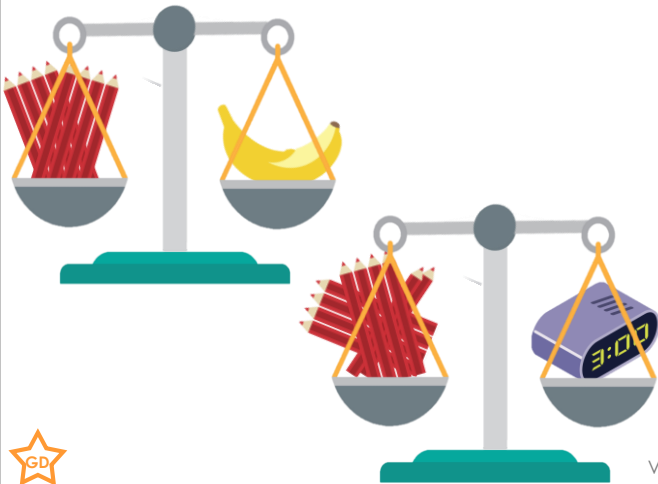
heavier

lighter



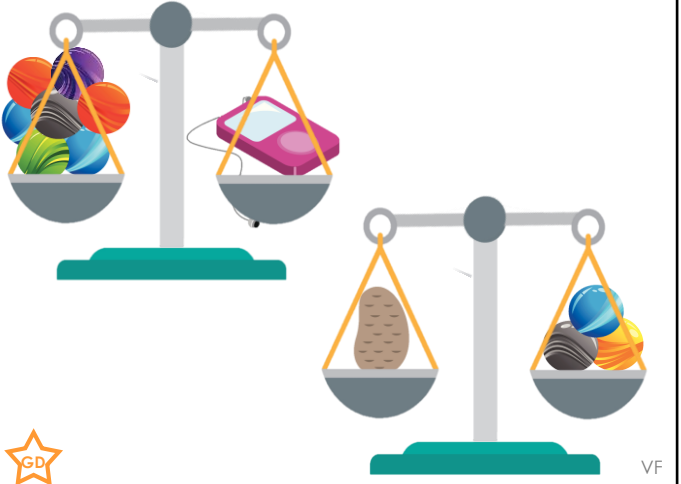
VF

8a. True or false? Two bananas are lighter than one clock.



VF

8b. True or false? Two potatoes are heavier than one music player.



VF

9a. Order the objects, heaviest to lightest.

A.



a paint palette weighs

B.



keys weigh

C.



a football boot weighs



half the buttons of a football boot



VF

9b. Order the objects, lightest to heaviest.

A.



a pumpkin weighs

B.



a football weighs

C.



sweetcorn weighs

double the buttons of sweetcorn



VF

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Developing

- 1a. **lighter**
- 2a. **False, the bottle is heavier.**
- 3a. **B, C, A**

Expected

- 4a. **heavier**
- 5a. **True**
- 6a. **A, C, B**

Greater Depth

- 7a. **lighter**
- 8a. **True, 1 clock is lighter than 2 bananas.**
- 9a. **A, C, B**

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Developing

- 1b. **heavier**
- 2b. **True**
- 3b. **C, A, B**

Expected

- 4b. **lighter**
- 5b. **False, the football boot is lighter.**
- 6b. **B, A, C**

Greater Depth

- 7b. **heavier**
- 8b. **False, 1 music player is heavier than 2 potatoes.**
- 9b. **B, C, A**