



Maths

Calculation Policy

Mass

2024

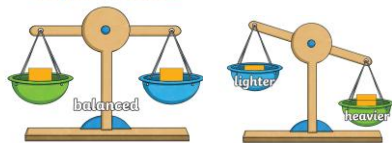
Year One and Two → page 3

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EYFS:

I can compare weight using the correct vocabulary



Vocabulary: balanced, heavy, heavier, heaviest, light, lighter, lightest, scales

Year One and Year Two (Both to be taught in Year One):

➡ I can identify which object is heavier

1. Using scales



2. Using the language greater than and less than

➡ I can identify which object is lighter

Same as previous

➡ I can measure the mass using objects

1. Using balance scales and cubes

Put the object in one side and see how many cubes it take for it to become equal

2. Images



➡ I can compare the mass using objects

1. Using balance scales

2. Images

0→ I can measure the mass in grams

1. Using balance scales and weight
2. Using scales
3. Using images

0→ I can compare the mass of objects using grams

0→ I can understand the relationship between grams and kilograms

Grams is lighter than kilograms etc

0→ I can measure the mass in kilogram

1. Using balance scales and weight
2. Using scales
3. Using images

0→ I can compare the mass of objects using kilograms

0→ I can apply the four operations to mass - may also need to be taught during Year
Two recap to embed skills

Year Three and Year Four (Both to be taught in Year Three)

0→ I can identify which object is heavier

0→ I can identify which object is lighter

0→ I can measure the mass using objects

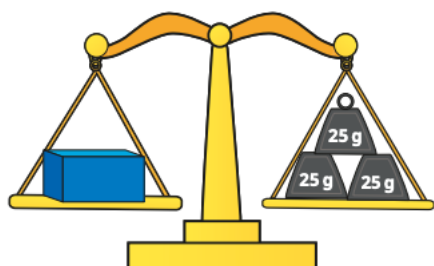
0→ I can compare the mass using objects

0→ I can measure the mass in grams

1. Using a range of scales/intervals

There are a range of scales in the cupboard and ones where the scales can be interchanged.

2. Using balance scales and weights



➡ I can compare the mass of objects using grams

➡ I can understand the relationship between grams and kilograms

$$1000\text{g} = 1\text{kg}$$

➡ I can measure the mass in kilograms

➡ I can measure the mass in grams and kilograms

➡ I can compare the mass of objects using kilograms

➡ I can make equivalent masses

1. Making a kilogram - use appropriate addition/subtraction skills

Tommy has these weights. How much more does he need to make a kilogram?



$$50 + 100 + 500 = 650$$

$$650 + \underline{350} = 1,000$$



2. Making multiple kilograms

3. Making kilograms and grams

➡ I can convert between grams and kilograms

In Y3 → just simple conversions eg $4000\text{g} = 4\text{kg}$ or $1300\text{g} = 1\text{kg}$ and 300g

In Y4 → using generalisations as below and decimals

$$1\text{kg} = 1000\text{g}$$

$$\underline{\hspace{1cm}} \text{ kg} \times 1000 = \underline{\hspace{1cm}} \text{ g}$$

$$\underline{\hspace{1cm}} \text{ g} \div 1000 = \underline{\hspace{1cm}} \text{ kg}$$

0→ I can compare mass using grams and kilograms

0→ I can apply the four operations to mass

Year Five and Year Six (Both to be taught in Year Five):

0→ I can measure the mass in grams

0→ I can understand the relationship between grams and kilograms

0→ I can measure the mass in kilograms

0→ I can measure the mass in grams and kilograms

0→ I can make equivalent masses

0→ I can convert between grams and kilograms

0→ I can compare mass using grams and kilograms

0→ I can apply the four operations to mass