

Maths

Calculation Policy

Length 2024

Year One \rightarrow page 3

Year Two → page 4

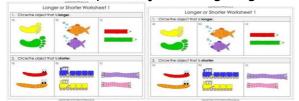
Year Three and Four \rightarrow page 5

Year Five and $Six \rightarrow page 8$

EYFS:

0 I can explore length - I can use and understand the vocabulary 'long' and 'short'

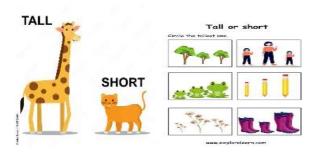
0 ☐ I can compare objects using 'long' and 'short'



Vocabulary: long, longer, longest, short, shorter, shortest, same as

1 can explore height- I can use and understand the vocabulary 'tall' and 'short'

• I can compare objects using 'taller and 'shorter'



Vocabulary: tall, taller, tallest, short, shorter, shortest, same as

Year One:

0 ☐ I understand the terms 'long' and 'short'

0- I can compare objects using 'long' and 'short'

1. Concrete objects

Pencils

Ribbon

Cubes etc

2. Images

I can compare objects using 'taller and 'shorter'

1. Concrete objects

Flowers

People

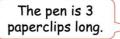
Cubes etc

- 2. Images
- 0- I can measure using objects

Highlight they have to be the same size

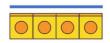
 Everyday items: Paperclips Hands etc





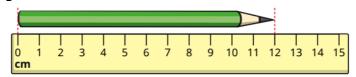


Mathematical objects:
 Counting bears
 Cubes etc



The line is 4 cubes long.

- 0 → I can measure using centimetres
 - 1. Images



2. Using a ruler

Year Two:

- 0- I understand the terms 'long' and 'short'
- 0- I can compare objects using 'long' and 'short'
- I can compare objects using 'taller and 'shorter'
- 0 ─ I can measure using objects

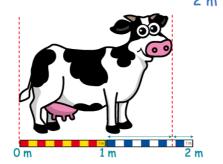
- 0 x I can measure using centimetres
- 0 ☐ I can measure accurately using a ruler (centimetres)
- I can use a ruler to accurately draw a given length (centimetres)
- 0 → I understand that metres are larger than centimetres
- - 1. Using a metre stick

Do you think a chair is taller or shorter than 1 m?



2. Images

What is the length of the cow to the nearest metre?



- 0→ I can compare lengths and heights
 - 1. Using objects and comparing their lengths
 - 2. Using objects and comparing their lengths using a ruler to measure
 - 3. Using images and rulers

- 4. Using measurements (5cm, 9cm, 3cm etc)
- 0- I can order lengths and heights
 - 1. Using objects and comparing their lengths/heights
 - 2. Using objects and comparing their lengths/heights using a ruler
 - 3. Using images and rulers
 - 4. Using measurements (5cm, 9cm, 3cm etc)
- 0- I can apply the four operations to length and height

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

- 0 → I can measure accurately using a ruler (centimetres)
- 0 ☐ I can use a ruler to accurately draw a given length (centimetres)
- 0 → I understand that metres are larger than centimetres
- 0 → I can estimate length and heights using metres
- I can understand the relationship between metres and centimetres

1m = 100cm

- 0 → I can write lengths and heights as metres and centimetres
- Eg) 1m 40cm
- 0 ☐ I can convert between metres and centimetres (multiples of 100)

Including decimals

$$m \rightarrow cm$$
 ____ $m \times 100 =$ ____ cm

needs to be covered during Year Four recap as x/+ 100 will have been taught

0- I understand that millimetres are smaller than centimetres

0→ I can measure accurately using a ruler (millimetres)

0 → I can use a ruler to accurately draw a given length (millimetres)

1 can understand the relationship between millimetres and centimetres

1cm = 10mm

I can write lengths and heights as millimetres and centimetres

Eq) 1cm 3mm

□ I can convert between millimetres and centimetres

 $Cm \rightarrow mm$ ____ cm x 10 = ___ mm $Mm \rightarrow cm$ ____ mm ÷ 10 = ___ cm

Including decimals

$$m \rightarrow cm$$
 ____ $m \times 100 =$ ____ cm

needs to be covered during Year Four recap as $x/\div 10$ will have been taught

0 I can compare lengths and heights

□ I can compare lengths and heights using the same units of measure

I can compare lengths and heights using different units of measure

Children should know that mm is less than cm and m etc

A beetle is 6 mm long.

A worm is 4 cm long.

Which animal is longer?

• I can apply the four operations to length and height

0→ I can add lengths using the same units of measure

0→ I can add lengths using different units of measure

- 0→ I can subtract lengths using the same units of measure
- 0 → I can subtract lengths using different units of measure
- I understand that kilometres are larger than metres may need to be taught in Y4 as chn will not have been introduced to thousands yet
- I can understand the relationship between kilometres and metres- may need to be taught in Y4 as chn will not have been introduced to thousands yet

1km = 1000m

I can convert between kilometres and metres - <u>may need to be taught in Y4</u> as chn will not have been introduced to thousands yet

Including decimals

$$km \rightarrow m$$
 ____ $km \times 1000 =$ ___ cm
 $m \rightarrow km$ ____ $m \div 1000 =$ ____ m

needs to be covered during Year Four recap as x/÷ 1000 will have been taught

- □ I can compare lengths using kilometres
- 0 ─ I can add and subtract using kilometres
- I can apply the four operations to length and height (range of units)

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

- 0─x I can understand the relationship between metres and centimetres
- 0 I can write lengths and heights as metres and centimetres
- 0 → I can convert between metres and centimetres
- 0 ─ I understand that millimetres are smaller than centimetres
- 0 ☐ I can measure accurately using a ruler (millimetres)
- 0 ☐ I can use a ruler to accurately draw a given length (millimetres)
- 0─x I can understand the relationship between millimetres and centimetres
- I can write lengths and heights as millimetres and centimetres
- I can convert between millimetres and centimetres
- 0 ☐ I can compare lengths and heights using the same units of measure
- 0 ─ I can compare lengths and heights using different units of measure
- 0 → I understand that kilometres are larger than metres
- 1 can understand the relationship between kilometres and metres

- 0-x I can convert between kilometres and metres
- 0 → I can compare lengths using kilometres
- 0-- I can add and subtract using kilometres
- 1 can apply the four operations to length and height (range of units)
- I can convert between different units of measure

 kilometre and metre; centimetre and metre; centimetre and millimetre
- 1 can convert between miles and kilometres

5 miles is approximately 8 kilometres

To convert from miles to kilometres, you first multiply by 8 then divide by 5.

miles
$$\rightarrow$$
 \times 8 \rightarrow \div 5 \rightarrow kilometres

To convert from kilometres to miles, do the opposite – multiply by 5 then divide by 8.

kilometres \rightarrow \times 5 \rightarrow \div 8 \rightarrow miles

0→ I can use all four operations to solve problems including length