THIRD SPACE
LEARNING

Ready-to-go Lesson Slides Year 4

Measurement: Length & Perimeter Lesson 1

At Third Space Learning we provide personalised online lessons from specialist maths tutors to support the target groups in your school.

These ready-to-go slides are designed to work alongside our interventions to supplement quality first teaching and raise attainment in maths for all pupils.

To find out more about how you could use our 1-to-1 interventions year-round to boost maths progress in your school then get in touch:

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Boosting maths progress through 1-to-1 conversations…

THIRD SPACE LEARNING

To be able to convert between cm and m

STARTER:

Which one of these is not a reasonable estimate?

I think the distance from my school to my house is about 1,500m.

I think the length of our school hall is about 150m.

I think the width of a computer key is approximately 15mm.

I think the height of our classroom window is roughly 150cm.

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

To be able to convert between cm and m

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For a school hall to be 150m long, your Headteacher would need a loudspeaker to do Assembly every morning!
The other estimates are appropriate, but this one is not!

To be able to convert between cm and m

There are 100 cm in 1 m

To convert metres to centimetres, we multiply by 100.

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

Try these:

3m = _____cm

6m = _____cm

8m = _____cm

2.3m = _____cm

6.5m = _____cm

To be able to convert between cm and m

There are 100 cm in 1 m

To convert metres to centimetres, we multiply by 100.

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
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Try these:

3m = 300cm

6m = 600cm

8m = 800cm

2.3m = 230cm

6.5m = 650cm

Convert: cm to m

1m = 100cm

To convert cm to m you **divide by 100**

100cm = 1m

200cm = 2m

500cm = 5m

Convert: m to cm

÷ 100

How many m in 100 cm?

in 200 cm?

in 1000 cm?

in 5000 cm?

To be able to convert between cm and m

ACTIVITY 2:

Convert these measurements.
Use a place value grid to help you

a) 7m = _____ cm

b) 300 cm = _____ m

c) 2.5m = _____ cm

d) 9.5 m = _____ cm

e) 450 cm = _____ m

f)   2.4 m = ___ cm

Convert: m to cm
÷ 100

Convert: cm to m
X 100

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

To be able to convert between cm and m

ACTIVITY 2:

Convert these measurements.
Sketch bar models to help you calculate each answer.

a) 7m = **700 cm**

b) 300 cm = **3m**

c) 2 ½ m = **250 cm**

d) 9 ½ m = **950 cm**

e) 450 cm = **4.5 m**

f) 2.4 m = **240 cm**

Success Criteria:

Mastery:
I can convert between cm
and min a real-life context.

Greater Depth:
I can apply what I have
learned about converting
between cm and mto solve
more complex problems.

To be able to convert between cm and m

ACTIVITY 4:

Use < , > or = to make each statement correct.

17 m $\bigcirc$ 1700 cm

10.5 m $\bigcirc$ 150 cm

885 cm $\bigcirc$ 8.8 m

50 cm + 1 m $\bigcirc$ 150 m

45 cm $\bigcirc$ 4.5 m

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

To be able to convert between cm and m

ACTIVITY 4:

Use < , > or = to make each statement correct.

17 m   (=) 1700 cm

10.5 m   (>) 150 cm

885 cm (>) 8.8 m

50 cm + 1 m (>) 150 m

45 cm   (<) 4.5 m

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

To be able to convert between cm and m

ACTIVITY 5:

Jack is 1.5m tall.

James is 25cm taller.

How tall is James?

Success Criteria:

Mastery:
I can convert between cm and min a real-life context.

Greater Depth:
I can apply what I have learned about converting between cm and mto solve more complex problems.

What are the different steps you need to do to solve this problem?

To be able to convert between cm and m

ACTIVITY 5:

Jack is 1.5m tall.

James is 25cm taller.

How tall is James?

Success Criteria:
Mastery: I can convert between cm and min a real-life context. **Greater Depth:** I can apply what I have learned about converting between cm and mto solve more complex problems.

What are the different steps you need to do to solve this problem?

We know that Jack is 1.5m tall. Convert to cm (x100) = **150cm.**

James is 25cm taller.   **150 cm + 25 cm = 175cm**

How tall is James? **175cm or 1.75m (÷ 100)**

Bigger unit → smaller unit TIMES
Smaller unit → bigger unit DIVIDE

m → cm   x 100

cm → m   ÷ 100