



Measurement

Contents

Student book answers		
Assessment	3	
Student progress record	٩	
Assessment answers	10	
Objectives	11	

Series Author:

Rachel Flenley

Copyright © 🔊 3P Learning

Page 1

- 1 Answers will vary.
- 2 Answers will vary. Students may suggest giving a precise fractional answer, rounding to the nearest whole number or using a term such as 'a bit.'

Page 2

What to do:

Longer than the string: 4, 3

Shorter than the string: 1, 2

Same length as the string: 5

1a <

- **b** >
- c >
- **d** <

Page 3

1a-e Answers will vary.

Page 4

1a 2 cm

- **b** 9 cm
- **c** 5 cm
- 2 Checkmark next to 6 cm hand.

Page 5

What to do: Observe students.

What to do next: a, b Answers will vary

Page 6

What to do: Answers will vary.

What to do next: Observe students.

Page 7

What to do: Observe students.

What to do next: Answers will vary.

Page 8

What to do: a, b Answers will vary

What to do next: Answers will vary.

Page 9

What to do: A trundle wheel has a circumference of 1 m.

What to do next:

a Answers will vary.

b The measurements are the same.

c Answers will vary.

Page 10

What to do: a, b Answers will vary

What to do next: Answers will vary.

Page 11

What to do: a–d Observe students.

What to do next: Answers will vary and may include options such as: $5 \times 20 \text{ cm} = 1 \text{ m}$ $5 \times 10 \text{ cm} + 1 \times 50 \text{ cm} = 1 \text{ m}$ $1 \times 50 \text{ cm} + 5 \times 10 \text{ cm} = 1 \text{ m}$ $1 \times 50 \text{ cm} + 1 \times 20 \text{ cm} + 3 \times 10 \text{ cm} = 1 \text{ m}$ $4 \times 20 \text{ cm} + 2 \times 10 \text{ cm} = 1 \text{ m}$ $4 \times 10 \text{ cm} + 3 \times 20 \text{ cm} = 1 \text{ m}$

Try: Answers will vary.

Page 12 What to do:

a 8 m

b 27 cm

c 50 m

d 10 cm

e yes, 20 cm

Page 13

- 1 Mass
- 2 Students should colour: heavier than a bit more heavy about the same exactly weigh more mass than less mass than different lighter than

Page 14

What to do: Answers will vary.

Page 15 What to do: a-f Answers will vary.

What to do next: Answers will vary and may look like: A has more mass than

Page 16

What to do: a–c Answers will vary.

Page 17 What to do: a–e Answers will vary.

What to do next: Observe students.

Page 18

What to do: Answers will vary.; <; Answers will vary.; <; Answers will vary.

Answers will vary.

What to do next: Answers will vary.

Page 19 What to do: a, b Answers will vary

What to do next: Answers will vary.

Page 20

1a-d Answers will vary.

2 Answers will vary.

3 Answers will vary.

Page 21

What to do:

a They balance each other on the scale.

b yes

 They still have the same mass.
 Do students understand the conservation of mass? Shape does not affect mass.

d 🗸 yes

What to do next: Answers will vary.

Page 22

- 1 28 kg
- **2** 40 g
- 3 12 kg
- **4** 4
- 5 yes

Page 23

Answers will vary and may include:

- 1a empty
- **b** full

c a little full/ $\frac{1}{4}$ full/ $\frac{1}{3}$ full

- **d** nearly full/ $\frac{3}{4}$ full
- e nearly full
- f nearly empty
- 2 Answers will vary. Container would have a capacity of 1.25 l.

Page 24

What to do:

a-c Answers will vary.

Page 25

What to do:

- a recipes/cooking
- **b** Observe students.

What to do next:

- a The capacity will have decreased by 2 markers.
- **b** Answers will vary depending on the size of bottle used.
- c Answers will vary. Students may say, 'Pour out 3 cups ...'.

Page 26

- a Answers will vary.
- **b** Answers will vary.

Page 27

Wha	at to do:	
a–c	Answers will vary	

What to do next: Answers will vary.

Page 28

What to do: Answers will vary.

What to do next:

- a Answers will vary.
- **b** Double the answer in question a.

Page 29

What to do: a–d Answers will vary.

What to do next: Answers will vary.

Page 30

- **1a** 300 ml
- **b** 700 ml
- **c** 400 ml
- **2a** 100 ml
- **b** 800 ml
- **c** 500 ml

Page 31

What to do: Observe students.

What to do next: Observe students.

Page 32

1	25 l
2	200 ml
3	7
4	25 ml
5	yes, $\frac{1}{2}$ I more
Pa	ge 33

1a 40°C
b 10°C
c 80°C
d 30°C
2a 70°C
b 0°C
c 60°C

d 30°C

Page 34 What to do: Observe students.

What to do next:

Answers will vary.

Length

1 Look at the words below. Colour any words you might use when you measure and talk about length.



2 Insert the correct symbol: <, > or =.



3 How long do you think these toys are? Put a ring around the best estimate for each.



4 Measure these lines with a ruler to the nearest cm.

a	a					
Ь	b					
c	•••••					
5 Ru	ıle a line that is 13 cm long.					
6 ⊢	ow many centimetres in a metre?					
7 a	7 a A young giraffe is 3 m tall, 11 m less than its mother. How tall is its mother?					
b	b If I lay my 5 crayons in a line they measure 25 cm. All the crayons are the same length, so how long is each?					
Skil	Skills and understandings Not yet			Got it		
• U:	ses a variety of terms to talk about length					
• U:	ses <, > and = symbols to compare lengths					
	Makes reasonable estimates of lengths (cm, m)					
• M	akes reasonable estimates of lengins (cm, m)					
• M	easures straight lines to nearest cm					

Mass

1 Write some words we use when we talk about mass.

2 Draw something with:



3 Draw a classroom object on each scale that might make it look like:



- 4 What can you think of that is
 - **a** bigger than an orange but lighter than it?
 - **b** smaller than a pillow but heavier than it?

Mass

5 Compare the masses. Insert the correct symbol: <, > or =.



6 What is the likely mass of these objects? Circle the best guess.



- 7 a Three children weigh 10 kg, 8 kg and 12 kg. What is their total mass?

6

b A box contains ten 5 g packets of sugar.What is the total mass of the sugar?

Skills and understandings	Not yet	Kind of	Got it
 Uses a variety of terms to talk about mass 			
 Uses <, > and = symbols to compare mass 			
• Chooses appropriate formal units of measurement (kg, g)			
 Solves word problems involving kg and g 			

1 Would you measure the capacity of the following objects in litres or millilitres? Insert < or > between each object.



2 Draw lines to match the capacities to the objects.



- **3** a If I pour 200 ml of water from a full 800 ml jug, how much water is left?
 - **b** I have 400 ml of juice. If I share it equally between four children, how much juice would each child have?

Skills and understandings	Not yet	Kind of	Got it
 Uses <, > and = symbols to compare capacity 			
• Chooses appropriate formal units of measurement (l, ml)			
• Solves word problems involving ml and l			

Temperature

1 What temperature do these thermometers show?



 ${f 2}$ What temperature do these thermometers show?



Skills and understandings	Not yet	Kind of	Got it
• Reads temperatures in degrees Celsius			

Series C – Measurement – Student Progress Record

Name	Class	Date
hat went well:		
hat I need to improve:		
Series C - Measurem	ent – Student Progre	ess Record
Series C – Measurem	ent – Student Progre	ess Record
Series C – Measurem	ent – Student Progre	2 ss Record
Series C – Measurem Name	ent – Student Progre	ess Record
Series C – Measurem Name Vhat went well:	ent – Student Progre	ess Record
Series C - Measurem	ent – Student Progre	ess Record







Торіс	Reference	Strand	Objective
Length	2M1	Measurement	Compare and order lengths, mass, volume/capacity and record the results using >, < and =
Length	2M2	Measurement	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Mass	2M1	Measurement	Compare and order lengths, mass, volume/capacity and record the results using >, < and =
Mass	2M2	Measurement	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
Volume & Capacity	2M1	Measurement	Compare and order lengths, mass, volume/capacity and record the results using >, < and =
Volume & Capacity	2M2	2M2 Measurement Choose and use appropriate standard unit and measure length/height in any direction mass (kg/g); temperature (°C); capacity (lit to the nearest appropriate unit, using ruler thermometers and measuring vessels	
Temperature	2M2	Measurement	Choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels

