Varied Fluency
Step 4: Imperial Units

Teaching Note:

The conversions used in this resource are: 1 inch = 2.54cm, 1 pint = 568ml and 1kg = 2.2lbs.

National Curriculum Objectives:

Mathematics Year 5: (5M6) Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
Mathematics Year 5:(5C6a) Multiply and divide numbers mentally drawing upon known facts
Mathematics Year 5:(5C6b) Multiply and divide whole numbers and those involving decimals by 10, 100 and 1,000

Differentiation:

Developing Questions to support converting imperial measures. Conversion rate always given in question; conversions require multiplying or dividing by 10.
Expected Questions to support converting imperial measures. Conversion rate always given in question; conversions require multiplying or dividing by 2, 4, or 5.
Greater Depth Questions to support converting imperial measures. Conversion rate not given in question; conversions require multiplying or dividing by any number up to 12.

More Year 5 Converting Units resources.

Did you like this resource? Don't forget to review it on our website.

Imperial Units

1a. If 2kg = 4.4lbs, circle the measurements that are less than 20kg.

44lbs	**15lbs**
45lbs	**27lbs**
78lbs	**39lbs**
46lbs	**88lbs**

VF

1b. If 4kg = 8.8lbs, circle the measurements that are more than 88lbs.

69kg	**12kg**
39kg	**61kg**
30kg	**41kg**
44kg	**28kg**

VF

2a. True or false?

If 1 inch = 2.54cm, 10 inches = 25.04cm.

VF

2b. True or false?

If 2 inches = 5.08cm, 20 inches = 50.8cm.

VF

3a. If 10 pints = 5,680ml, how much is equivalent to 1 pint? Circle the correct measurement.

56.8ml	**5,8600ml**
68.5ml	**568ml**

VF

3b. If 30 pints = 17,040, how much is equivalent to 3 pints? Circle the correct measurement.

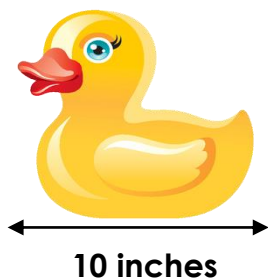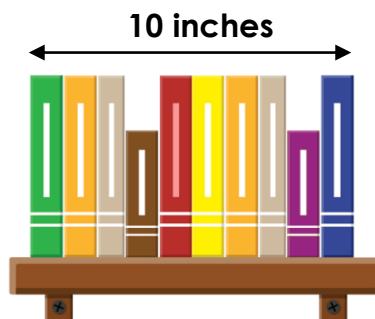|	
1,704ml	**1,740ml**
17,004ml	**1,470ml**

VF

4a. Fill in the blank below.

If 1 inch = 2.54cm, ten ducks will measure _____ cm.

10 inches

VF

4b. Fill in the blank below.

If 1 inch = 2.54cm, one book will measure _____ cm.

10 inches

VF

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Varied Fluency – Imperial Units – Year 5 Developing

Imperial Units

5a. If 4kg = 8.8lbs, circle the measurements that are less than 24kg.

50.8lbs   42.06lbs

88.8lbs   51.9lbs

91.2lbs   55.3lbs

34.1lbs   64.7lbs

VF

5b. If 5kg = 11lbs, circle the measurements that are more than 55lbs.

52kg   61.5kg

13.4kg   23.5kg

18kg   30kg

66kg   24kg

VF

6a. True or false?

If 2 pints = 1,136ml, 6 pints = 3,480ml.

VF

6b. True or false?

If 3 pints = 1,704ml, 12 pints = 6,816ml.

VF

7a. If 5 inches = 12.70cm, how much is equivalent to 1 inch? Circle the correct measurement.

2.45cm   2.55cm

2.54cm   2.61cm

VF

7b. If 5 pints = 2,840ml, how much is equivalent to 20 pints? Circle the correct measurement

11,305ml   11,306ml

10,306ml   11,360ml

VF

8a. Fill in the blank below.

If 1kg = 2.2lbs, 5 paint pots will weigh _____ lbs.

4kg

VF

8b. Fill in the blank below.

If 2kg = 4.4lbs, 2 boxes of toys will weigh _____ lbs.

5kg

VF

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Varied Fluency – Imperial Units – Year 5 Expected

Imperial Units

9a. Circle the measurements that are less than 42kg.

100lbs   125.8lbs

88.8lbs   99.2lbs

76.8lbs   54.9lbs

92.01lbs   93.5lbs

Imperial Units

9b. Circle the measurements that are greater than 33lbs.

12.8kg   5.78kg

20.91kg   65.49kg

10.53kg   17.98kg

30.76kg   5.96kg

10a. True or false?

8 inches = 21.32cm

10b. True or false?

15.24 cm = 6 inches

11a. Circle the measurement that is equivalent to 2.5 pints.

1,420ml   14.20ml

1,204ml   12.04ml

11b. Circle the measurement that is equivalent to 6.3 pints.

35.784ml   357.84ml

3,574ml   3,578.4ml

12a. Fill in the blank below.

Six pieces of bamboo would measure _____cm.

7 inches

12b. Fill in the blank below.

Eighteen flags would measure _____ cm.

5 inches

Varied Fluency
Imperial Units

Developing
1a. 15lbs, 27lbs, 39lbs
2a. False, 25.4cm
3a. 568ml
4a. 254cm

Expected
5a. 50.8lbs, 42.06lbs, 51.9lbs, 34.1lbs
6a. False, 3,408ml
7a. 2.54cm
8a. 44lbs

Greater Depth
9a. 88.8lbs, 76.8lbs, 54.9lbs, 92.01lbs
10a. False, 8 inches = 20.32cm
11a. 1,420ml
12a. 106.68cm

Developing
1b. 69kg, 61kg, 41kg, 44kg
2b. True
3b. 1,704ml
4b. 2.54cm

Expected
5b. 52kg, 66kg, 61.5kg, 30kg
6b. True
7b. 11,360ml
8b. 22lbs

Greater Depth
9b. 20.91kg, 30.76kg, 65.49kg, 17.98kg
10b. True
11b. 3,578.4ml
12b. 76.2cm