Varied Fluency
Step 1: Kilograms and Kilometres

National Curriculum Objectives:

Mathematics Year 5: (5M5) Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)

Differentiation:

Developing Questions to support converting kilometres and metres; kilograms and grams; using multiples of 10,000 or 1,000.
Expected Questions to support converting kilometres and metres; kilograms and grams; including numbers to 1 decimal place and some use of fractions.
Greater Depth Questions to support converting kilometres and metres; kilograms and grams; including numbers up to 2 decimal places and fractions, including using zero as a place holder.

More Year 5 Converting Units resources.

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

Kilograms and Kilometres

1a. Check each of the conversions and correct any that are wrong.

9km = 900m 20,000g = 20kg

3,000g = 30kg 8.0kg = 8,000g

D VF

2a. Complete the table:

	True or false?
3kg < 2,000g	
2kg < 4,000g	
4km = 4,000m	
8,000m > 7km	

D VF

3a. Select a number from the box to make these statements correct.

3kg < _____ _____ > 2kg

80km = _____ 4,000m > _____

4,000	80,000	3,000	2

Include the correct unit of measurement.

D VF

4a. Jessica swims for 3km and runs for 5km.

How many metres does she complete altogether?

D VF

Kilograms and Kilometres

1b. Check each of the conversions and correct any that are wrong.

4,000m = 40km 1,000g = 1kg

6.0kg = 6,000g 8kg = 8,000g

D VF

2b. Complete the table:

	True or false?
7,000g > 7kg	
3km = 30,000m	
9km > 900m	
6,000m > 6km	

D VF

3b. Select a number from the box to make these statements correct.

4kg > _____ _____ = 90,000g

8,000m > _____ 6km < _____

2,000	6	7,000	90

Include the correct unit of measurement.

D VF

4b. Louis mixes 2,000g of flour and 1,000g of sugar in a bowl.

How much does the sugar and flour weigh altogether in kilograms?

D VF

Kilograms and Kilometres

5a. Check each of the conversions and correct any that are wrong.

3,000m = 3.0km	700m = 7.0km
1.5km = 1,500m	2.7kg = 27,000g
3,300g = 3.3kg	1,100g = 1.1kg

E VF

6a. Complete the table:

	True or false?
3kg > 2,500g	
27kg > 2,070g	
4.2km = 420m	
420m > 4.2km	

E VF

7a. Select a number from the box to make these statements correct.

3.5kg < _____ _____ > 27kg

9.8km > _____ 4,200m = _____

4.2	9,700	5,500	31,000

Include the correct unit of measurement.

E VF

8a. If Miles uses $\frac{3}{10}$ of a 1kg bag of flour.

How many grams are left in the bag?

E VF

Kilograms and Kilometres

5b. Check each of the conversions and correct any that are wrong.

7.3kg = 7,300g	500m = 0.5km
4,900m = 49km	8.8kg = 8,800g
20,200m = 2.0km	3,200m = 3.2km

E VF

6b. Complete the table:

	True or false?
7,000g > 6.5kg	
3km = 30,000m	
9km > 900m	
6,000m > 6.1km	

E VF

7b. Select a number from the box to make these statements correct.

3.4kg > _____ _____ = 9,900g

800m > _____ 6.7km < _____

0.6	7,600	9.9	3,300

Include the correct unit of measurement.

E VF

8b. Harvey travels $\frac{3}{10}$ km by bike. He then walks 5km.

How many metres does he travel?

E VF

Kilograms and Kilometres

9a. Check each of the conversions and correct any that are wrong.

3,500m = 3.05km 560m = 0.56km

1.76km = 1,760m 0.43kg = 4,300g

5,510g = 5.51kg 12,060g = 12.06kg

GD VF

10a. Complete the table:

	True or false?
3.54kg < 3,450g	
27.64kg < 26,740g	
3.02km = 3,020m	
4,230m < 4.32km	

GD VF

11a. Select a number from the box to make these statements correct.

6.78kg < _____ _____ > 2.73kg

9,800m > _____ 260m = _____

7,430	8.08	0.26	9,850

Include the correct unit of measurement.

GD VF

12a. Grace throws a ball 100m and it rolls for a further 10m.

How far does the ball travel in kilometres?

GD VF

Kilograms and Kilometres

9b. Check each of the conversions and correct any that are wrong.

7.03kg = 7,030g 120m = 0.12km

4,970m = 49.7km 0.23kg = 230g

30,300m = 33km 3,210m = 3.21km

GD VF

10b. Complete the table:

	True or false?
9.01km < 9,100m	
0.38km = 3,800m	
3.13kg < 3,140g	
3,410g < 3.43kg	

GD VF

11b. Select a number from the box to make these statements correct.

4.42km >_____ _____ = 950m

720g > _____ 2.37kg < _____

5,670	0.71	0.95	3,320

Include the correct unit of measurement.

GD VF

12b. Suha has $3\frac{7}{10}$kg of rice.

How many grams of rice does she have?

GD VF

Varied Fluency
Kilograms and Kilometres

Developing

1a. 9km = 900m corrected to 9km = 9,000m.
3,000g = 30kg corrected to 3,000g = 3kg or 30,000g = 30kg.
2a. False, True, True, True.
3a. 3kg < 4,000g, 3,000 > 2kg, 80km = 80,000m, 4,000m > 2km
4a. 8,000m

Expected

5a. 700m = 7.0km corrected to 700m = 0.7km or 7,000m = 7.0km.
2.7kg = 27,000g corrected to 2.7kg = 2,700g or 27kg = 27,000g.
6a. True, True, False, False.
7a. 3.5kg < 5,500g, 31,000g > 27kg, 9.8km > 9,700m, 4,200m = 4.2km.
8a. 700g.

Greater Depth

9a. 3,500m = 3.05km corrected to 3,500m = 3.5km or 3,050km = 3.05km.
0.43kg = 4,300g corrected to 0.43kg = 430g or 4.3kg = 4,300g.
10a. False, False, True, True.
11a. 6.78kg < 9,850g, 7,430m > 2.73km, 9,800m > 8.08km, 260m = 0.26km.
12a. 0.11km.

Varied Fluency
Kilograms and Kilometres

Developing

1b. 4,000m = 40km corrected to 4,000m = 4km or 40,000m = 40km.
80kg = 8,000g corrected to 80kg = 80,000g or 8kg = 8,000g.
2b. False, False, True, False
3b. 4kg > 2,000g, 90kg = 90,000g, 8,000m > 6km, 6km < 7,000m
4b. 3kg

Expected

5b. 4,900m = 49km corrected to 4,900m = 4.9km or 49,000 = 49km.
20,200m = 2.0km corrected to 20,200m = 20.2km or 2,000m = 2.0km
6b. True, False, True, False.
7b. 3.4kg > 3,300g, 9.9kg = 9,900g, 800m > 0.6km, 6.7km < 7,600m
8b. 5,300m.

Greater Depth

9b. 4,970m = 49.7km corrected to 4,970m = 4.97km or 49,700m = 49.7km.
30,300m = 33km corrected to 30,300m = 30.3km or 33,000m =33km.
10b. True, False, True, True.
11b. 4.42km > 3,320m, 0.95km = 950m, 720g > 0.71kg, 2.37kg < 5,670g.
12b. 3,700g.