Year 4 Maths Remote learning Week beginning Monday 1st February 2021

This pack contains:

- Completed activity for teaching

- 5 lessons with tasks

You will then need to bring in your homework book when you return to school. The teacher will then be able to give you feedback on the work.

Lesson 1 - Teaching
Starter: Can I choose g or kg?
Which unit would you choose to weigh these objects?

Task: Today we are going to be comparing the weight (or mass) of objects with a standard mass. Have a look through the cupboards in your kitchen. Can you find something that weighs 1kg? If not the closest thing will do or you could weigh out 1kg of rice/pasta using your kitchen scales.

Now collect together 10 objects from around your house of varying weights – some heavy and some light.

Hold your standard (1kg) weight in one hand and one of your objects in the other hand.
Can you compare the weights? Which one is heavier?

Now write the object on a copy of the table on the next page and tick which column is relevant to the object. Repeat this process for the other objects.
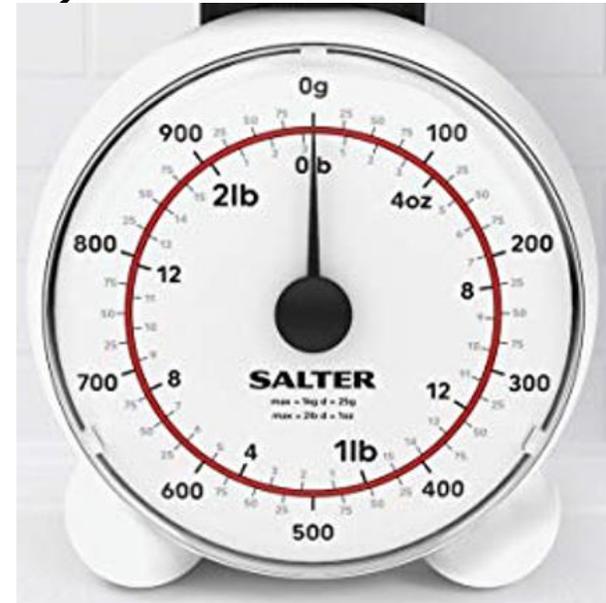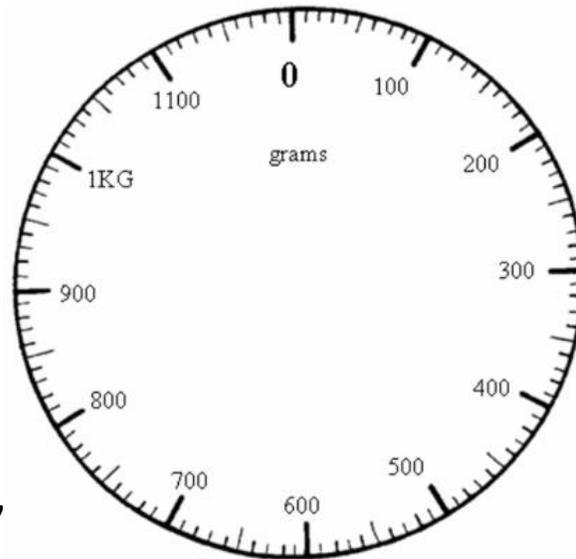
Lesson 1 – Activity

Can I compare masses to 1kg?

Object	Less than 1kg	About 1kg	More than 1kg

Answers
Different answers are possible depending on the objects chosen.
Ask an adult to check your work today.

Lesson 2 - Teaching

Starter:

Can I order masses? Remember 1kg = 1000g

Order these masses from lightest to the heaviest.
1kg, 20g, 2kg, 200g, 350g, 3kg, 1500g

Task: Your task today is to read scales.
When we measure weight (or mass) we use weighing scales. One of the tricky things about scales is that they are not standard. Look at these two scales for example. On the scale on the left the lines (divisions) represent 10g and on the scale on the right they represent 25g.
Can you draw an arrow to show where these weights (masses) would be on each scale?
100g, 1kg, 500g, 750g, 225g

Now try the scale reading activity on the next page.

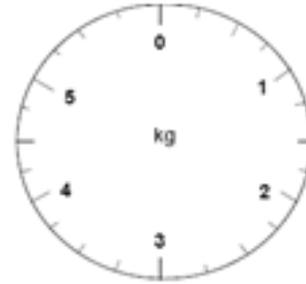# Lesson 2 - Activity
Can I read different scales?

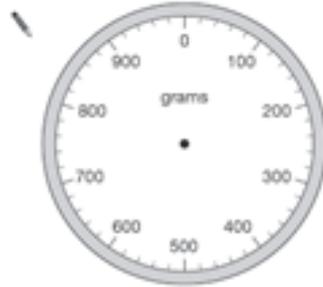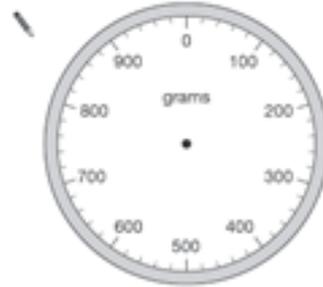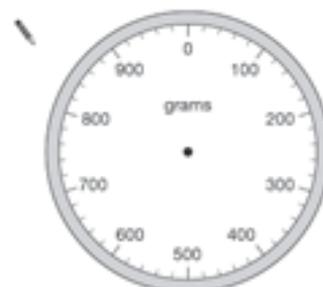Draw the pointer on the scale to show the weight below.

2kg

5kg 500g

1kg 250g

520g

780g

260g

660g

910g

1kg 70g

Lesson 3 - Teaching
Can I recall times table facts?

Starter: Spend some time practising your tables on Times Table Rock Stars or print and solve this 8x table activity.

Task: Today, you are going to solve another Multiplication grid challenge.

Lesson 3 - Activity
Can I recall times table facts? Copy and complete.

Multiplication Grid 7 – Fill in the missing numbers

X		2				3		
2								
								64
						9		
						27		
6	36							
			49					
					16			
				25				
							81	
							90	

Answers:

Multiplication Grid 7 – Answers

X	6	2	7	5	4	3	9	8
2	12	4	14	10	8	6	18	16
8	48	16	56	40	32	24	72	64
3	18	6	21	15	12	9	27	24
9	54	18	63	45	36	27	81	72
6	36	12	42	30	24	18	54	48
7	42	14	49	35	28	21	63	56
4	24	8	28	20	16	12	36	32
5	30	10	35	25	20	15	45	40
9	54	18	63	45	36	27	81	72
10	60	20	70	50	40	30	90	80

Lesson 4 - Teaching
Can I measure mass?
Starter: How many different ways can you make 1250g using these masses?

1kg   100g   100g   50g   200g   250g

Task: Today you have a choice of activities.

Choice 1: If you have a set of weighing scales at home, you could choose objects from around your house and weigh them.
Remember to estimate first and copy and complete the table on the next page!

Choice 2: If you do not have weighing scales at home, complete the Reading Scales worksheet on the following page.

Lesson 4 – Activity Choice 1
Can I estimate and measure mass?

Object	Estimate (g or kg?)	Measurement (g or kg)

Thinking question

Did your estimates get more accurate as you completed more objects? Why do you think that was?

Lesson 4 – Activity Choice 2
Can I read scales?

Write the weights under the scales.

_____kg

_____kg _____g

_____kg

_____g

_____g

_____g

_____g

_____g
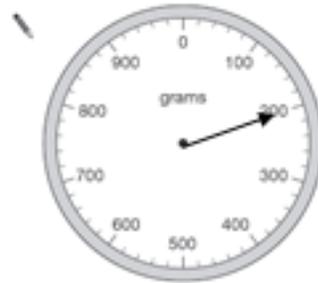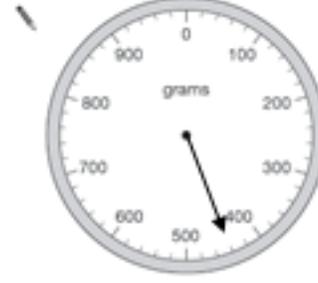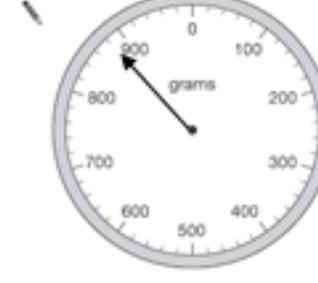
_____kg _____g

Lesson 5 - Teaching

Can I solve balance scales problems?

Starter: Copy and complete these mass sequences by counting on or back in 50g jumps.

150g, _____, _____, _____, _____, _____
375g, _____, _____, _____, _____, _____
_____, _____, _____, _____, _____ 900g
_____, _____, _____, _____, _____ 1kg 200g

Task: You will be solving balance scales problems.

Look at this example.
How could we find out the mass of one of the small weights on the left hand side of the scales?

Remember that if the mass is the same on both sides, the scales will balance.

So 4 small weights + 2kg = 10kg.

If we take away the 2kg from 10kg what is left will be the total weight of the 4 small weights.
10kg – 2kg = 8kg

Now we need to share out the 8kg between 4 weights.
Use your times tables facts to help you. 4 x 2 = 8 so 8kg ÷ 4 = 2kg.
Each small weight has a mass of 2kg.
Now try the similar problems on the next page.
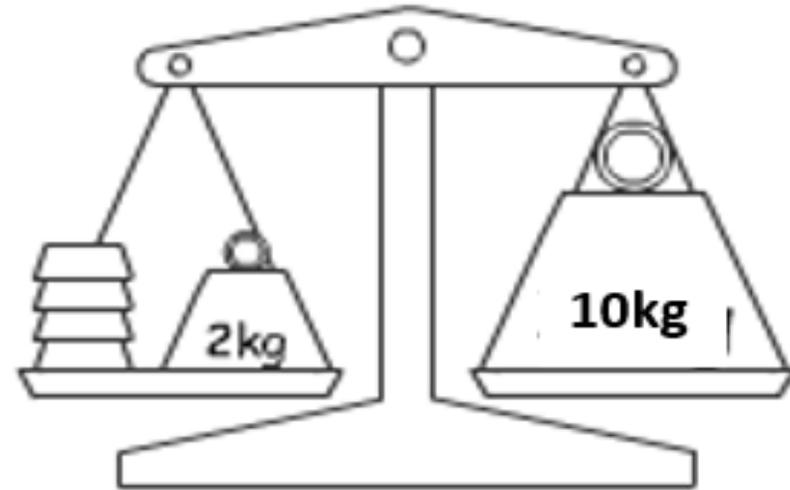
Lesson 5 - Activity
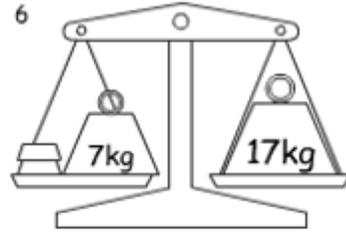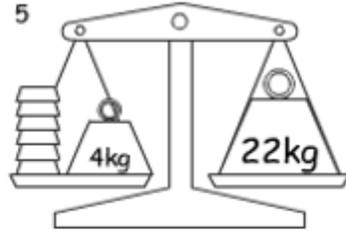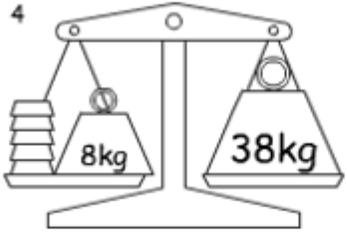## Can I solve balance scales problems?

Purple

Each missing weight is ....   Each missing weight is ....   Each missing weight is ....

4 — 8kg / 38kg   5 — 4kg / 22kg   6 — 7kg / 17kg

Each missing weight is ....   Each missing weight is ....   Each missing weight is ....

Green

1 — 30g / 210g   2 — 30g / 230g   3 — 50g / 230g
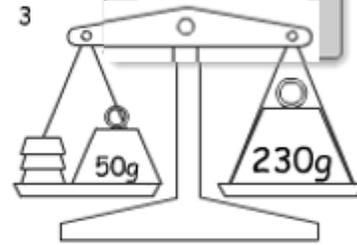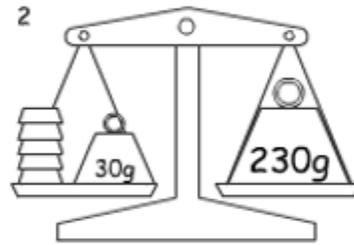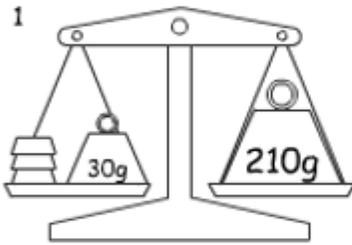
Each missing weight is ....   Each missing weight is ....   Each missing weight is ....

Yellow

4 — 70g / 90g   5 — 60g / 540g   6 — 90g / 250g
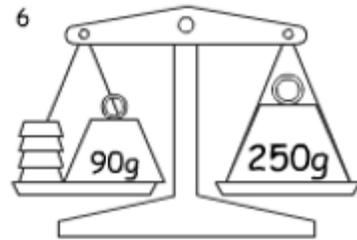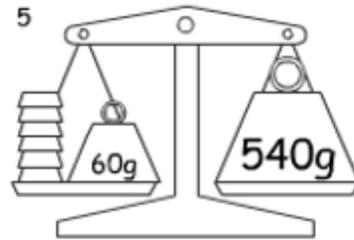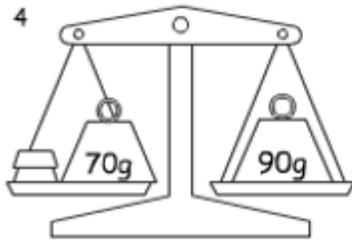
Answers
Purple
6kg 3kg 5kg
Green
60g 40g 60g
Yellow
10g 80g 40g