WEEK 2

Mass


## DAY 1



## WHAT IS MASS?

L.O. Can I understand which units are used for measuring mass?

- You don't have


## Equivalent Units of Mass - Metrics

to worry about milligrams.

1 kilogram (kg) $=\mathbf{1 0 0 0}$ grams (g)
1 gram = 1000 milligrams $(\mathbf{m g})$

## L.O. Can I investigate how much

 things weigh?Find some objects which have their weight on. The kitchen would probably be a good place to start.

## INVESTIGATION

## Put them in order from lightest to

 heaviest.What units of measurements have you found?

## L.O. Can I estimate objects that weigh more or less than a kilogram?

- Find 8 objects.
- Estimate their weight. Do you think they weigh more or less than a kilogram.
- If you have a pair of scales check your estimates.



## Think about animals.



- Choose 8 animals put them in order of lightest to heaviest.
- Draw the animals.



## DAY 2

-Grams and Kilograms

Which items would you measure in kilograms? Which items would you measure in grams?


Which items would you measure in kilograms? Which items would you measure in grams?


## L.O. Can I consider lighter and heavier?

O. To measure, compore, add and subtract mass (g/kg) (ARE)

(5) 2.288 kg

## . <br> 3. apple, calculator, watermelon, sellotape.


4. banana, basketball, giraffe, lorry. (Unless it is a very big giraffe and a small lorry)
is
$5.65 \mathrm{~kg}, 650 \mathrm{~g}, 165 \mathrm{~g}, 65 \mathrm{~g}$.

## L.O. Can I estimate weights?



| 1.400 kg |
| :--- |
| 2.4 kg |
| 3.20 g |
| 4.100 kg |
| 5.30 g |
| 6.85 g |
| 7.70 kg |
| 8.30 g |
| 9.2 kg |



## ANSWERS. Talk to

 someone at home about your ideas.- 1.5 kg
- 3.600 g
5.80 g

2. 1 kg
3. 100 g
6.700 g

DAY 3
-Converting grams and kilograms

## L.O. Can I convert between crams and kilograms?

ol $\mathrm{kg}=1000 \mathrm{~g}$
-So...
$01 / 2 \mathrm{~kg}=500 \mathrm{~g}$

$.1 / 4 \mathrm{~kg}=250 \mathrm{~g}$

- $/ / 10 \mathrm{~kg}=100 \mathrm{~g}$

GRAMS
KILOGRAMS

- 1000 g

500g
250 g
750 g

- 100 g

200g

- 300g
$3 / 10 \mathrm{~kg}$
400g
600 g
700 g
800g
900g
- I. $1000 \mathrm{~g}=$

2. $2000 \mathrm{~g}=$
-3. $500 \mathrm{~g}=$
3. $1,500 \mathrm{~g}=$

- $5.4,500 \mathrm{~g}=$
- $7.250 \mathrm{~g}=$
- $9 \cdot 3,250 \mathrm{~g}=$
- $11.600 \mathrm{~g}=$

6. $7,500 \mathrm{~g}=$
7. $750 \mathrm{~g}=$
8. $100 \mathrm{~g}=$
9. $2,300 \mathrm{~g}=$

## Change

 these from grams to kilograms.- I. Ikg

2. 2 kg
-3. $1 / 2 \mathrm{~kg} \quad 4.11 / 2 \mathrm{~kg}$

- $5.41 / 2 \mathrm{~kg} \quad 6.7 \mathrm{l} / 2 \mathrm{~kg}$
- $7.1 / 4 \mathrm{~kg} \quad 8.3 / 4 \mathrm{~kg}$

9. $11 / 4 \mathrm{~kg} \quad 10.1 / 10 \mathrm{~kg}$
$\circ 11.6 / 10 \mathrm{~kg} \quad 12.23 / 10 \mathrm{~kg}$

## ANSWERS

- 1.3 kg

2. 9 kg

- 3.4 kg

4. $21 / 2 \mathrm{~kg}$

- $5.63 / 4 \mathrm{~kg}$

7. $8 / 10 \mathrm{~kg}$
$8.71 / 2 \mathrm{~kg}$
-9.1 I/I0 kg
$10.4 / 10 \mathrm{~kg}$

- 11.10 kg
- $1.3,000 \mathrm{~g}$

2. $9,000 \mathrm{~g}$

- $3.4,000 \mathrm{~g}$

4. $2,500 \mathrm{~g}$

- $5.6,750 \mathrm{~g}$

6. 300 g

- 7.800 g
8.7,500g


## ANSWERS

-9. I, 100g
10.400 g

- II. $10,000 \mathrm{~g}$

12. $3,750 \mathrm{~g}$

## L.O. Can I convert grams and Kilograms?

- This is tricky



## Day 4

${ }^{\circ}$ Reasoning problems.

## L.O. Can I <br> solve <br> reasoning problems?


I. 6 units

I. 6 units
2.Tomato

$\square$ 2.Tomato
詸 3.4 units

马 3.4 units
$\square$ 4. Carrot
(!) 5.13 units
6. Carrot
$\square$ 7. Pineapple
$Y$ 8. Broccoli

## ANSWERS



## ANSWERS

## I. 1,000g

2.500 g
3. Orange

5. C
6.28
7.3
Tricky!
8. 3,500g
9.250 g

## A pen has a mass of 15 grams. What is the mass of 5 identical pens?

A large box has a mass of 125 kilograms. A small box has a mass of 114 kilograms. What is the total mass of both boxes?

Sarah's fish tank holds 32 liters of water. Sarah uses a 4 liter container to fill the tank How many times will Sarah need to fill the 4 liter container in order to fill the fish tank?

## L.O. CAN I SOLVE WORD PROBLEMS?

Ben has three cups, each filled with 325 ml of lemonade. What is the total liquid volume of lemonade in the three cups?

A. 75 g
(-) B. 239 kgC. 8 times
*
D. 975 ml

## ANSWERS

## -Mixed Calculations

## DAY 5

-Try Ready, Steady or, if you are feeling brave, Go!

| - | Ready | Steady | Go |
| :---: | :---: | :---: | :---: |
| - | $31+27=$ | $145+229=$ | 357+298 = |
| - | $87-34=$ | $824-118=$ | 626-269 = |
| - | $43 \times 3=$ | $146 \times 5=$ | $51 \times 26=$ |
| - | $54 \div 4=$ | $97 \div 6=$ | $204 \div 9=$ |
| - | $173+18=$ | $338+194=$ | 2754 + $729=$ |
| - | 94-27 = | 628-271 = | $1378-928=$ |
| - | $17 \times 4=$ | $78 \times 6=$ | $147 \times 52=$ |
| - | $47 \div 6=$ | $68 \div 3=$ | $136 \div 3=$ |

- 
- There are $\mathbf{I} 53$ children. If $\mathbf{6 4}$ are boys how many are girls?
- I have $\mathbf{I 7 5}$ cakes. They need to be put in tins. Each tin holds $\mathbf{I 2}$ cakes. How many tins will I need?
- I have 6 bags. Each bag has 17 oranges. I have 10 friends, How many oranges can I give to each friend?


## ANSWERS



