

L3 Measuring weight challenge! Name _____

Challenge 1: Use a scale to get the weight of these common objects in **grams**:

An Orange/apple/durian		A Paul Jennings book set	
A classroom chair		A container of counters	
A (full) school milk box		A full school bag	
An iPad/tablet		10 new pencils	

Challenge 2: In teams figure out how much you weigh on Earth (use a scale to measure the pull of Earth's gravity on your own body). Then, using what you know about division or multiplication, work out what you would weigh on other planets.

Use these ratios to help work them out in your maths book (they have been rounded to make the maths easier!)

Earth's moon: **1/6th** (divide your Earth weight by 6)

On Mars you weigh **4/10ths** of your Earth weight (divide your weight by 10, multiply by 4)

Jupiter **2.5/1** (multiply your weight by 2.5)

Neptune **1.2/1** (divide your weight by 10, then multiply by 12)



Name	Earth weight	The Moon	Mars	Jupiter	Neptune

Challenge 3: Even in these modern times babies' weights are still measured in 'pounds' (lbs) and 'ounces' (oz). Use a calculator to convert these weights to kilograms and grams. Watch your place value!

1 pound = 0.45 Kilogram, or 454 grams (roughly) – about the weight of a block of butter

1 ounce = **28.4** grams (roughly). There are 16 ounces in a pound.



Random baby names	Baby weight in lbs & oz.	Ounces (Pounds x 16 = ounces) Then ounces x 28.5 = grams	Grams Oz x 28	weight in kg
David (for example)	10lbs 6oz	10 x 16 = 160 + 6 = 166. 166 x 28.4 =	~4700g	4.7kg
Leonie	7lbs 7oz			
Wayne	9lbs 2oz			
Timothy	8lbs 10oz			
Margaret	6lbs 9oz			
Marie	7lbs 11oz			
Karinne	8lbs 3oz			