

Discussion Problems

Step 1: Introduce Weight and Mass

Teacher note: We recommend printing this resource in colour. This will help children to distinguish the images used in Q2.

National Curriculum Objectives:

Mathematics Year 1: (1M1) [Compare, describe and solve practical problems for: mass/weight \[for example, heavy/light, heavier than, lighter than\]](#)

Mathematics Year 1: (1M2) [Measure and begin to record: mass/weight](#)

About this resource:

As this resource is aimed at Year 1, we recommend that an adult reads the problem to children who cannot yet access it for themselves.

This resource has been designed for pupils who understand the concepts within [this step](#). It provides pupils with more opportunities to enhance their reasoning and problem solving skills through more challenging problems. Pupils can work in pairs or small groups to discuss with each other about how best to tackle the problem, as there is often more than one answer or more than one way to work through the problem.

There may be various answers for each problem. Where this is the case, we have provided one example answer to guide discussion.

We recommend self or peer marking using the answer page provided to promote discussion and self-correction.

More [Year 1 Weight and Volume](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

Introduce Weight and Mass

1. Vinnie the Vet is comparing the weight of his animals. He places a hamster and one other animal on the scale below.



The rabbit is lighter than the hamster.



The kitten is the heaviest animal.



Two mice are the same weight as one rabbit.



The rat is the same weight as two hamsters.

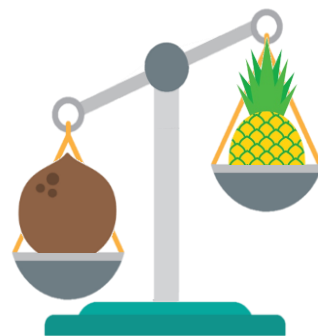


The guinea pig is lighter than the kitten but heavier than the rat.

Investigate which animal could complete the scale correctly.

DP

2. Joseph is thinking of a fruit that is lighter than a coconut but heavier than an apple.



Use the scales to explore which fruit Joseph could be thinking of.

DP

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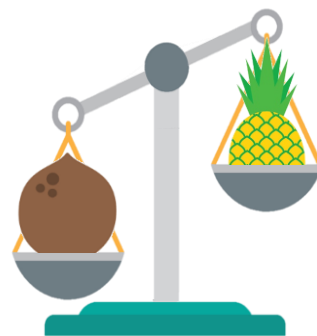
The guinea pig is lighter than the kitten but heavier than the rat.

Investigate which animal could complete the scale correctly.

The kitten or the guinea pig could complete the scale, as they are both heavier than the hamster.

DP

2. Joseph is thinking of a fruit that is lighter than a coconut but heavier than an apple.



Use the scales to explore which fruit Joseph could be thinking of.

The pineapple and the banana. Both are lighter than the coconut but heavier than the apple.

DP