

100 g Mass Language Cards



What are you trying to do?

- Estimate masses in multiples of 100 grams
- Heft to identify differences between masses

What do you need?

- 100 g Mass language Cards, cut up and shuffled
- A mass balance pan or rocker balance to check masses (optional)
- Multiples of 100 g masses

What do you do?

- Select a card at random. Ask everyone to look around them and identify at least 2 different objects that might have a mass to match.
- Explain to a partner why you selected your object.

e.g.

The mass of this object
is about 200 g

- Challenge a random student to get their object and pass it around the group to heft. Remind students to heft once in their left hand and once in their right hand. Does everyone agree that this object feels about the given mass?
- Ask for suggestions as to how you can check the estimated mass.
e.g. check using a rocker balance pan and 2 x 100 g masses.

Variation?

- Challenge students to build up their estimation skills so that they can tell 100 g or more differences. Remind them that this is an estimation skill only. It is quite difficult for humans to feel differences less than 100 grams.

**The mass of this object
is less than 100 g**

**The mass of this object
is about 100 g**

**The mass of this object
is about 200 g**

**The mass of this object
is about 300 g**

**The mass of this object
is about 400 g**

**The mass of this object
is about 500 g**

**The mass of this object
is about 600 g**

**The mass of this object
is about 700 g**

**The mass of this object
is about 800 g**

**The mass of this object
is about 900 g**

**The mass of this object is
about 1000 g**

**The mass of this object is more
than 1000 g**
