

Popcorn Peril

You need ☒ popcorn ☒ kitchen scales ☒ an oven or microwave
☒ a metric measuring cup (250 mL)
☒ a calculator (optional)

Activity

1. Measure 125 millilitres ($\frac{1}{2}$ cup) of uncooked popping corn.

2. Find the mass of the corn.

3. Estimate how much space the popcorn will take up when it is cooked. You will need to use units of volume or capacity to give your answer (cubic centimetres, cubic metres, litres, millilitres, and so on).

4. Cook the popcorn.

1. By how much does popcorn expand when it is cooked?
2. What is the mass of the cooked popcorn?
3. At the movies, you can buy popcorn in bags of these sizes: ----->

How many millilitres of popping corn would need to be cooked to fill each bag?

4. What would the mass of 1 cubic metre of cooked popcorn be?
5. How much popcorn would need to be cooked to fill your classroom?

