

LO: To think about the relationship between shape and capacity of a container (prisms)



Consider these points:

- does it matter if the card overlaps where you stick it together?
- each shape uses the same amount of card/paper. Does this mean they have the same capacity?
- how will you check the capacity to see if you were right?

Write your equipment

list here: You may choose:

-sellotape, ruler, scissors,
rice, sand, spoon, jugs

Method: -ask your friends how they are tackling the problem?

1. Take three pieces of card/paper which are the same size.
2. Make one into a triangular prism
-one into a cuboid
-one into a cylinder - all must be open ended
3. Estimate the volume of your prisms.
4. Fill your prisms.

What was the volume of your prisms? _____

How close was your guess? _____

What if...

-you made your prism, cuboid, and cylinder very tall and thin, by folding the paper differently? _____

-you used a mixture of very tall, thin shapes and ordinary ones? _____

-you used square pieces of card? _____

What have you found out? (include photographs to support your reasoning -Use key vocabulary)

Key Vocabulary:

litres capacity millilitres