

Assessment Task- Volume and Capacity, August 25, 2011

The perimeter, area and volume of buildings	BELOW	AT	ABOVE
SQUARE	The perimeter and area of a square	The volume of a cube Show and use formula Show all calculations	Surface area of a cube Mass of cube
RECTANGLE	The perimeter and area of a rectangle	The volume of a rectangular prism Show and use formula Show all calculations	Surface area of a rectangular prism Mass of a rectangular prism
TRIANGLE	The perimeter of a triangle	The area of a triangle and volume of a triangular prism Show and use formula Show all calculations	Surface area of a triangular prism Mass of a triangular prism
CIRCLE		The perimeter and area of a circle and volume of a cylinder Show and use formula Show all calculations	The surface area of a cylinder Mass of a cylinder

Your task is to design a school. You must think about the buildings that are required within a school and include these on your plan. You must include the perimeter, area, volume of all your buildings. You must include at least one building of each of the following shapes:

- Cube
- Rectangular prism
- Triangular prism
- Cylinder

You must show all working out.

Assessment Task – Location, maps and networks, September 8 2011

	BELOW	AT	ABOVE
MAPS	<p>Map includes some of the following: a compass (North), scale, key/legend.</p> <p>Map includes some of the following: less than fifteen roads, a school, a shopping complex, ovals.</p>	<p>Clearly labelled map drawn reasonably to scale includes the following: a compass (North), scale, key/legend.</p> <p>Map includes the following: fifteen to twenty roads, a school, a shopping complex, ovals.</p>	<p>Clearly labelled map drawn accurately to scale with contours includes the following: a compass (North), scale, key/legend.</p> <p>Map includes the following: more than twenty roads, one or more schools, a shopping complex, ovals plus additional buildings which appear in a community.</p>
NETWORKS	<p>Some attempt at illustrating a network is included on the map.</p>	<p>A traversable network is illustrated on the map that covers a reasonable proportion of the roads.</p>	<p>A fully traversable network is illustrated that visits all points on the map.</p>

Your task is to design a map of a new housing estate. The estate must include **schools, shopping complexes, ovals** and at least **twenty streets**. The map must also include a **key** and a **scale**.

You must then map out a route for the postman to make deliveries around your new estate. The route must be traversable and must not pass each house more than once on the same side of the road.