MAKE A PERISCOPE

MATHS: STRAND UNITS AND OBJECTIVES

Length	*Estimate, compare, measure the length of an object using appropriate units*
Lines and angles	*Identify, describe and classify vertical, horizontal, parallel, diagonal and perpendicular lines*
2D shapes	*Construct and draw 2D shapes*
3D shapes	*Construct 3D shapes*
	Solve and complete practical tasks and problems involving 2D and 3D shapes

The diagram on the right shows light passing through a periscope. *(Reflecting prisms are used instead of mirrors to reflect the light)*

Look at the diagram and try the following:

1) Lines and Angles

How many right angles can you see?
(*Do you think there might be 16?*)

Can you point out the parallel lines in the diagram?

How many diagonal lines are there?

Can you give a value (*in degrees*) to the size of all

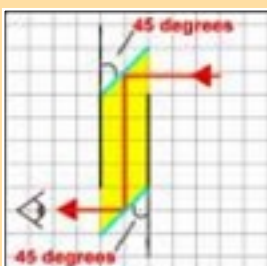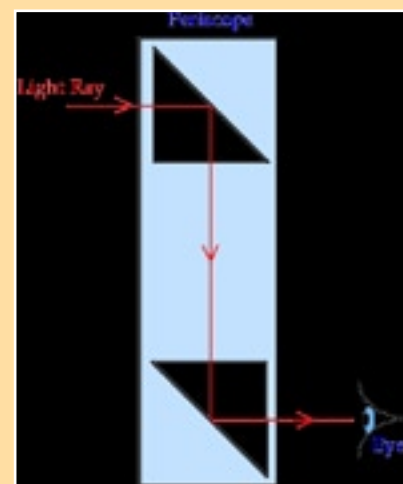the angles in the diagram?

2) Shapes

How many triangles can you see?

What name could you give these triangles?

 (*Right-angled; isosceles, etc.*)

3) Solve problems involving shapes

Look at the next diagram which shows the path of light through a periscope.

Can you copy this diagram accurately onto graph paper?

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4) Design (and Make)

Can the children design a fun house in which mirrors are placed so that you can see around corners? (It might not be very popular!).

Could they try to make such a house (or part of one) using cardboard, mirrors etc.

REMEMBER THAT LIGHT REFLECTS OFF A MIRROR AT THE SAME ANGLE AS IT LANDS ON THE MIRROR.

Mirror   **Angle A**   **Angle B**

Light

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