

Design and Make a Lighthouse (suitable for 5th and 6th classes)

Strand Unit - Electricity

- Investigating current electricity using simple circuits

Materials:

- toilet roll holders
- wire and wire stripper
- coloured card
- switch
- paper clips,
- various bulbs (1.5v, 2.5v and 3.5v)
- D size batteries
- plastic containers for top of lighthouse.



Exploring

- Explore the materials available.
- Decide which bulb works best and what type of covering is best for the top of the lighthouse.
- Determine the height of the lighthouse and how you will keep the light in place.

Planning

- Draw what your lighthouse will look like.
- Devise some criteria such as
 - There should be a working light on top and it must be visible from a distance
 - The lighthouse should be steady and at least 30cm tall.
 - There must be a switch in order to turn the light on and off.

Making

- Make your lighthouse using the selected materials. Check the criteria above as you work.

Evaluating

- Does the lighthouse work well?
- Does it fulfil the criteria?
- How could it be improved or changed? Do my class mates have any ideas?