



MMC: ENTERPRISE ACTIVITY

Rewise task

Teachers' notes and curriculum

The Draught Excluders

Modern methods of construction (MMC), also known as smart construction, are new and of providing quicker wav buildings, by maximising the efficiency of material and human resources. Sustainability and efficiency are the 2 things that need to be continually developed, improved and adapted for the construction industry to be able to meet the needs of the 21st century. MMC is a process which focuses on off-site construction techniques, such as mass production and factory assembly so that more homes ae produced in less time whilst improving quality and being kinder to the environment.

Until all homes are produced this way, we need to think about other things we can do. *Insulating* homes decreases the amount of fuel needed to heat them, reducing carbon emissions.

Draught proofing (or *draught* exclusion) is one of the easiest and most cost-effective methods of cutting energy costs in any home.

Something as simple as draught excluder can help to keep rooms warm and cosy.

Using scrap and recyclable materials design and make draught excluders to sell at a school fayre. Subject focus:

mapping

Cross- curricular links:

Planning Sheet: MMC Enterprise Activity

Task: Make your draught excluders and invite local residents to a net zero fayre so they can buy your creations.

Offer discounts to incentivise your customers to reduce their own carbon emissions.

Collect materials and fabrics from home. (You will need a strong piece of material that is longer than the width of a front door.) Old socks, tights, soft toys can be used as filling. (In fact, you can cut up any old clothing.)

What you need:

- A large piece of paper to use as a template.
- A tape-measure.
- Sharp scissors.
- Sewing machine or a needle and thread.
- Old buttons and other fabric for decoration.

Method.

- 1. Measure your front door. (The excluder will need to be a little bit longer than the width of the door, so no draughts get past.)
- 2. Cut a template from your paper for one side of your cushion. This should be the same length and width as your cushion will be.
- 3. Use the paper pattern to cut out two pieces of fabric one for each side of your cushion.
- 4. If you're adding decorations like buttons, a trim, position them where you want them on the fabric. Then sew them on.
- 5. Put the two pieces of fabric for your cushion together, lining them up exactly. Make sure the patterned side of the fabric is on the inside. This will hide the stitches from view.
- 6. Start sewing! Keep your stitches about 1cm from the edge of the fabric. Leave an opening so you can turn the material inside out, leaving the pattern on the outside.
- 7. Stuff your cushion with the recyclable filler. Then stitch up the opening so it doesn't come out.