

Building Sustainable Houses in Cities

The UK government think we need to build over 200 000 new houses to meet demand. Many believe all these houses should be sustainable so they have a limited impact on the environment.

The house below is due to be built in Sheffield. Add detailed labels to the house that show how it could be sustainable.

You need to think about:

- insulation
- energy sources
- recycled materials
- carbon footprint
- roofing
- doors and windows
- heating



Building Sustainable Houses in Cities **Answers**

Indicative Content

Pupils may indicate the following:

- Solar energy (heat and electricity)
- Eco-friendly insulation – recycled newspaper/wool
- Reclaimed materials where possible – bricks/roof tiles
- Double glazing on windows/doors to prevent heat loss
- UPVC doors/window frames with seals to prevent heat loss and decay of materials
- UPVC guttering system to prevent decay of materials (also cheaper to replace than metal)
- Water collection system (e.g. water butts)

Pupils may also suggest speedier construction methods, such as steel framing to reduce initial time spent on-site.