

HBF LEARNING RESOURCE – DAVID ROGERS

LESSON 10: HOW CAN WE MAKE NEW HOMES MORE ENERGY EFFICIENT?

Learning Objectives:	<ul style="list-style-type: none">• Understand what house builders do to make new homes energy efficient.
Key words:	Energy saving tips,
Resources:	<ul style="list-style-type: none">• Lesson PPT,• Enough copies of the Energy Efficient ideas factsheet
Useful websites:	<ul style="list-style-type: none">• Greener Scotland has a useful interactive ‘Virtual House’ where students can explore the various energy saving features of homes.
Prior Knowledge:	An understanding of climate change and the causes of global warming would be a useful background to this lesson.
Curriculum Links:	<p>KS3: understand how human and physical processes interact to influence, and change landscapes, environments and the climate; and how human activity relies on effective functioning of natural systems.</p> <p>KS4: Sustainable communities and land-use in particular examining the contemporary challenges arising from and influencing urban change. The final activity in particular is suitable for GCSE classes.</p>

This lesson will focus on the various options to make a home more energy efficient. This is an ideal opportunity to extend learning through an eco-reps club, homework or looking at ways in which the school could be more efficient.

SUGGESTED ACTIVITIES:

START the lesson by considering the energy certificate of a school building. There is an example on Slide 2 but it would be good if you substituted this for a photograph of the one on display in your school. Many students will already be well aware of climate change and energy saving through the media and previous lessons at primary school and other subjects, so start the lesson by asking them **why it's important and what can we do to save energy.**

COMPARE this with the list of ideas contained in the fact sheet. **Is there anything to add?**

USING the information contained within the factsheet and any other online information available, ask students to design a presentation aimed at the teachers in your school. **Highlight** the ways in which teachers can make their homes more efficient and the benefits of doing so both financially and globally. Part of the presentation could be a diagram that summarises the information in the factsheet. This could make an ideal corridor display in the Geography department or assembly theme.