

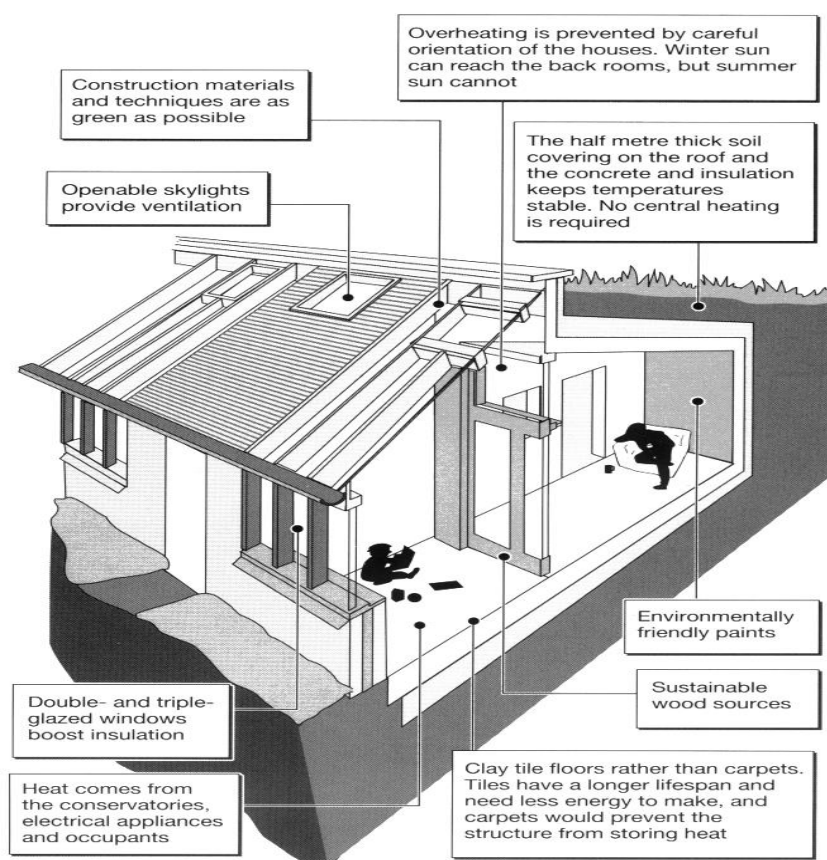
SECTION EUROPÉENNE

Épreuve spécifique de sciences physiques en anglais

Doc 1: Principles of Low Carbon Design

There are 4 main principles in order to reduce the emission of carbon dioxide when we build a house:

- 1 Understand energy use in the building type
- 2 Use the form and fabric of the building to do the work
- 3 Focus on insulation and air tightness
- 4 Use high efficiency building services with low carbon fuels (using renewable energy for example)



Doc 2: Hockerton house design

Doc 3 : video "EcoPrinciple_3 Energy Efficiency"

Task: You are an architect and you have an appointment with a family. They would like to build a low carbon home.

After a presentation of energy issues of the 21st century, you have to explain what your construction choices would be in order to achieve this goal.

The following are guidelines for your work.

- Why is it important to reduce CO₂ emissions?
- What domestic appliances can we use inside the house to reduce our energy consumption?

- What is the interest of using windows with a large surface area of glass?