Eco Houses~Steam Education from Queensland



[1] What kind of house do you want to live in?

- I want to live in a livable house.
- I want to live in a strong, durable house.
- I want to live in an eco-friendly house.
- I want to live in a sustainable house.

[2] What kind of house do you think an eco-friendly house is?

- I think an eco-friendly house is a house that doesn't damage the environment.
- I think an eco-friendly house is a house that doesn't emit a lot of CO₂.

[3] Please give a concrete example of how to retain heat in a house.

- Brick veneer walls are useful for retaining heat in the house.
- Double glazed windows can keep a house warm or cool.

[4] What implication does grass on the roof have from a structural point of view and energy efficiency?

 A lot of materials are needed to support that heavy roof and therefore a lot of energy is used in processing the materials.

[5] How can we create power from nature?

- We can create power by using solar panels which change sunlight into electricity.
- We can create power with wind turbines that make use of wind.

[6] What's the trouble with building wind turbines on coastal regions?
 Tidal waves could destroy the wind turbines. It is not always windy, so we cannot rely on them all the time.
[7] Look at an ordinary house and point out what are changes that you would make and where you put them to transform the house into an eco house.
Placing solar panels on the roof.
 Making a veggie patch around the sides of the house.
Placing a water tank to store rain water below the ground.
Adding wind turbines if there is enough space.
[8] Please give your opinion about sustainable houses.
N/A (There are no fixed answers to this question, because everyone's opinion matters.)



[1] The following is the summary passage of the session. Write down the appropriate words in the following blanks of the passage.

An eco house is an (energy) efficient house that makes the most of the natural (environment). For example, (solar) (panels installed on the roof to create (electricity) from sunlight. You can also place) (turbines) in windy places to generate electricity from the wind. In addition, if rain water is stored in the (water) (), tank the water can be reused. Double glazed (windows) and brick veneer) keep heat in the house and save energy. If you make a walls (vegetable) (garden) in the space around the house, you can supply food. You can make (compost) with household food waste. Various kinds of sustainable houses can be considered depending on the land and) of the regions. climate