

Lesson 7: Green Energy



- I can use scientific language and ideas to explain how humans can reduce their impact on the environment.



How Can We Build Energy-Efficient Homes?

You have two minutes to write down as many ideas as you can. Ready? Steady? GO!



Sustainable Buildings – Think Like an Architect!

Watch the following video: <https://developingexperts.com/s/missions/868>



Be the Architect!

Thinking of the extraordinary houses we have seen last week and using your knowledge of insulation and renewable energies, design and label your own building. How **green** will it be?

Wall Insulation?

Double Glazing?

Solar Panels?

Energy-Saving
Lightbulbs?

Water
Collection?



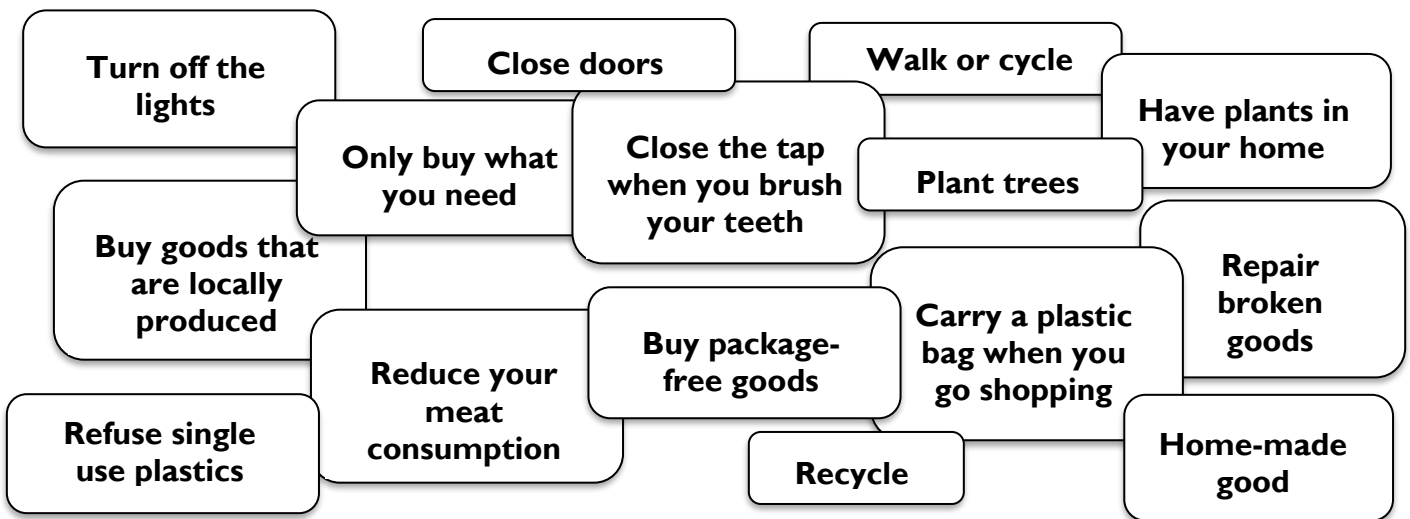
What Can We Do?

Using green energy in your home (like the one you have just designed) will reduce energy costs. If you have solar panels or use energy-saving lightbulbs, you will consume less electricity. If your home is well insulated, you will not use the heating much. It is less expensive and more sustainable, as it will also reduce your carbon emissions. Electricity is still made by burning fossil fuels, so the less we use it, the better for the planet. Many countries' common goal is to significantly reduce their carbon emissions, leading to a clean energy future.



What Can You Do?

As children, you might be thinking, "I am not an architect, so it's out of my reach." Well, there are plenty of small steps you can take to save energy and reduce greenhouse gases. Here are some examples:



The 4R

Reduce – Only use what you really need (not what you really want) and refuse the rest.

Reuse – Prioritise goods that have a long life and use them again and again.

Repair – When a good is damaged, try to mend it to give it a second life.

Recycle – If you cannot reuse or repair a broken good, then recycle it in the correct bin.





How Can I Reduce my Impact on the Environment?

[illegible]