



FEEDU - North East London Energy Efficiency Advice Centre/United Kingdom

Note: Adaptation of currency can be altered according to the origin of the country.

The Globe Trotting and Energy

Introduction:

The Globe Trotting and Energy is an attractive tool with an easy adaptation concept for each country to play and experiment on the topic of an energy use and consumption.

Experience with the Activity:

We used this tool when we were teaching with schools as part of EST project. This game was very useful with a motivational discussion amongst pupils. It is a good collaborative activity, where pupils enjoyed using their Geographical, and communicational skills, to understand energy efficiency and its benefits on every day to day life.

Goal: Students will use play The Globe Trotting and Energy, to understand the energy efficiency topics and how to save environment and money.

Materials used:

A big plastic world map

A spinner

50 questions and answers cards

10 images about climate change, flooding, environmental damage, home energy efficient, double glazing window, single glazing window, draught proofing, heating types, controls, and

Procedure:

1. The above background energy knowledge should be gained from the FEEDU educational pack after teaching.
2. In the 3rd or 4th session of teaching.
3. Display the map, Divide the students to 5 groups of 6.
4. Each group find their name by spinning the spinner, Europe, Aisa, North America, Australasia, Africa, South America, and Ocean.
5. The first group ask the first question from others, the first group who knows the answer, get the lead and then they going to ask 4 more question of each group, they need to find out the question and answer relate to the above topics and stick it to their group name on the map.
6. The final winner is the group who has got more correct answers.
7. The group winner is going to have a pack of recycled coloured pencils to share at school and each member of team is going to have one more Free Low energy light bulbs.



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4. Game questions

Q1: WHAT IS ENERGY?

A: It makes us grow and move and think. It is the ability to do work.

Q2: What are FORMS OF ENERGY Or MRS CHEN?

A:

- M - Mechanical energy (kinetic energy);
- R- Radiant energy or sunlight or solar
- S- Sound energy
- C- Chemical energy
- H- Heat energy
- E- Electrical energy
- N- Nuclear energy

Q3: What are Energy Sources?

A: Renewables; Solar Energy, Wind Energy, Hydro power, Biomass, Geothermal.
Non-renewables; Oil, Gas, Coal, and Nuclear.

Q4: WHAT ARE ATOMS?

A: Atoms are the building blocks of the universe. They are very, very tiny particles. Millions of atoms would fit on the head of a pin.

Q5: How DO WE SAVE ENERGY IN OUR HOMES?

A:

1. Don't fill your kettle with more water than you need.
2. When turning the heating on, remember *not* to open *any* windows as you will let the heat out.
3. Instead of opening windows after a bath or shower get a fan fixed into your bathroom.

Q6: What Is Biomass?

A:

- Biomass is anything that is alive
- It is also anything that was alive a short time ago
- Trees, crops, garbage and animal waste are all biomass
- Most of the biomass we use for energy today is wood.
- Biomass gets its energy from the sun

Q7: What will happen if we don't save energy soon?

A:

1. Sooner or later, energy and fossil fuels will run out. This means that fuels, like petrol will become more expensive and maybe only the rich will be able to afford fuels like this.
2. Saving energy could save our world and environment from losing fossil fuels and other fuels.
3. Just think what it would be like without fuels and energy to heat your home and turn on lights. With your help, our world could be around for longer.



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Q8: What happens with energy and heat in our homes?

A:

1. Cheap electricity is available after midnight, but most people use heating systems in the evenings, before midnight.
2. There is a demand for devices which can store heat for use many hours later.

Q9: Do you have more than one refrigerator or freezer at your house? Do you know about Energy Labelling Appliances?

A: Yes, the energy labels show estimated fuel consumption and an energy grading from A to G. An A-rated appliance will use approximately half as much electricity as a G-rated appliance.

Q10: Do you know what is Storage Heaters?

A: Night storage heaters have electric elements which heat up blocks of dense material with a high specific heat capacity, often to temperatures of several hundred degrees Celsius. The blocks are cased in layers of insulation so that the heat escapes slowly. Some heaters which store heat have electric blowers which pass air over the blocks and out into the room when extra heat is needed. On very cold nights extra heating may be needed.

5. Conclusion

They are going to have better understanding of how to save energy, money and environment better for today and tomorrow.

Guidelines for Teachers:

This is very good tool. How much the student learns from this depends on the way we present the educational materials to classes. They can discuss the “questions and answers” in a small team, and have a better understanding of how to save energy and environment better for today and tomorrow.

Time taken

20-30 minutes

Tool Rating (* = Ok *** = Excellent)**

The Globe Trotting and Energy = *****

This is a visualized, informative, enjoyable, and productive tool.

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