

PLT's Energy & Society Materials

Hike Through the Kit

Answer the following questions and specify where you found the information.

1. What song contains the lyrics, *"The atom's nucleus is charged positive / it's where the positive proton and neutral neutron live / the nucleus is orbited by the electrons / which are negatively charged and always moving on"*?
2. How much food does an adult giraffe eat in a day?
3. One song is presented in both English and Spanish. What is the title of the song in both languages?
4. What is a foot-pound and what is it used to measure?
5. Which national education standards are met by the Energy & Society concept, "Individuals can impact the environment through their energy choices."
6. Step-by-step dance instructions are provided for which songs?
7. What children's literature for ages 4-8 is related to geothermal energy?
8. What are the typical sources of energy for today's hybrid cars?
9. Which activity is contained in both PLT's *PreK-8 Environmental Education Activity Guide* and PLT's *Energy & Society Activity Guide*?
10. What is the second educational objective for Activity 3: Energy Chains?
11. What poster is used in Activity 1: Energy Detectives?
12. What other PLT activities are related to Activity 4: What Powers the Move?
13. What are the four categories of the Energy Challenge Game?
14. What subjects are covered in Activity 2: May the Source Be with You?

Bonus Question

For what age levels are the songs and dance instructions the most appropriate?

PLT sponsored in [state name] by [PLT local sponsor].

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Answers

Answer the following questions and specify where you found the information.

1. What song contains the lyrics, “*The atom’s nucleus is charged positive / it’s where the positive proton and neutral neutron live / the nucleus is orbited by the electrons / which are negatively charged and always moving on*”?
#5 Energy. Source: CD liner notes and Energy & Society Activity Guide, Appendix III, page 70.
2. How much food does an adult giraffe eat in a day?
75 pounds of food. Source: Where is the energy? poster.
3. One song is presented in both English and Spanish. What is the title of the song in both languages?
#6 Energy and Me and #7 Energia Y Yo. Source: CD liner notes and Energy & Society Activity Guide, Appendix III, page 71.
4. What is a foot-pound and what is it used to measure?
A foot-pound is the energy required to raise a one pound object one foot from the Earth’s surface. It is used as a measurement in mechanical energy. Source: Energy & Society Activity Guide, Part Two: Background Information for Educators, page 13.
5. Which national education standards are met by the Energy & Society concept, “Individuals can impact the environment through their energy choices.”
Science: K-4 and 5-8: Standard F. Social Studies: Early Grades: Standard IXe. English Language Arts: Standard 11. Source: Energy & Society Activity Guide, Part One: Introduction, page 9.
6. Step-by-step dance instructions are provided for which songs?
Energy & Me, Water Cycle, and It is the Energy, It is the Sun. Source: Energy & Society Activity Guide, Appendix III, page 75.
7. What children’s literature for ages 4-8 is related to geothermal energy?
Geysers, The Magic School Bus Blows Its Top: A Book about Volcanoes, and Planet Earth. Source: Energy & Society Activity Guide, Appendix II, page 65-66.
8. What are the typical sources of energy for today’s hybrid cars?
There are two sources: a fuel-efficient gas engine and an electric motor. Source: What powers the move? poster and Energy & Society Activity Guide, Appendix IV, page 76.
9. Which activity is contained in both PLT’s *PreK-8 Environmental Education Activity Guide* (eighth edition, 2001) and PLT’s *Energy & Society Activity Guide*?
In the Driver’s Seat. Source: Energy & Society Activity Guide, Contents, page 1 and Appendix V, Project Learning Tree Connections, page 79.

10. What is the second educational objective for Activity 3: Energy Chains?
Students will be able to explain The Law of Conservation of Energy. Source: Energy & Society Activity Guide, Part Four: Activity 3, page 36.
11. What poster is used in Activity 1: Energy Detectives?
Where is the Energy? Source: Energy & Society Activity Guide, Part Four: Activity 1, page 25, Part A, #6.
12. What other PLT activities are related to Activity 4: What Powers the Move?
#53: On the Move, #55: Planning the Ideal Community, #85: In the Driver's Seat, and #86: Our Changing World. Source: Energy & Society Activity Guide, Part Four: Activity 4, page 42.
13. What are the four categories of the Energy Challenge Game?
Forms of Energy, Renewable Energy Sources, Potential or Kinetic, and Energy & Society. Source: Energy & Society Activity Guide, Part Four: Activity 6, page 52.
14. What subjects are covered in Activity 2: May the Source Be with You?
Language Arts, Science, Social Studies, Art. Source: Energy & Society Activity Guide, Part Four: Activity 2, page 32.

Bonus Question

For what age levels are the songs and dance instructions the most appropriate?

While all the songs and dances are appropriate for all ages, *Energy & Me* and *Water Cycle* feature younger kids and use simpler dance moves. *It is the Energy*, *It is the Sun*, *Resources*, and *Energy* feature older kids and the dance steps are more complex. Source: *Energy & Society Activity Guide*, Appendix III, page 75.