

**UES Bright Students: The Conservation Generation**  
**Pre-Visit PowerPoint Study Guide**  
**Student Worksheet**

**Name** \_\_\_\_\_

1. List at least three things you did or used today that required energy:  
(Slide # 3)

---

---

---

2. Energy is defined as \_\_\_\_\_  
(Slide # 4)

3. List at least one way we use each of these forms of energy:  
(Slide # 4)

light energy - \_\_\_\_\_

heat energy - \_\_\_\_\_

sound energy - \_\_\_\_\_

chemical energy - \_\_\_\_\_

energy of motion - \_\_\_\_\_

4. Energy can change \_\_\_\_\_  
(Slide # 5)

5. List at least two ways we transform energy to do work for us: \_\_\_\_\_

\_\_\_\_\_  
(Slides 6 & 7)

6. Of all the different types of energy, one is used most often by humans. What is it? \_\_\_\_\_  
(Slide # 9)

---

7. List some energy sources that are used to generate electricity:  
(Slide # 10)

---

---

8. Select one of the energy sources listed above and describe how it might be transformed to light a bulb.  
(Slide # 12)

---

---

9. Energy sources are classified as either \_\_\_\_\_ or \_\_\_\_\_  
(Slide # 13)

10. List four non-renewable energy sources. Circle the sources that are considered to be "fossil fuels."  
(Slides 14 & 15)

---

---

11. List at least two negative effects of using fossil fuels.  
(Slide # 16)

---

---

12. List four renewable energy sources.  
(Slides # 17 & 18)

---

---

13. The phenomenon in which electricity is generated when magnets are spun within a coil of copper wire is called the \_\_\_\_\_ effect.  
(Slide # 19)

14. In the \_\_\_\_\_ effect, electricity is generated when sunlight shines on special substances (such as silicon) and causes \_\_\_\_\_ to flow.  
(Slides 20 & 21)

15. All of our energy sources come from \_\_\_\_\_ and are called \_\_\_\_\_.  
(Slide # 22)

16. What is the most abundant energy source here in Arizona? \_\_\_\_\_  
(Slide # 24)

17. What source of energy do Arizonans rely on more than any other? \_\_\_\_\_  
(Slide # 25)

18. Renewable sources currently provide for \_\_\_\_\_% of our energy needs.

(Slide # 25)

19. Using less energy to perform the same task or work is called \_\_\_\_\_.

(Slide # 26)

20. What are two ways we can become more energy efficient?

(Slide # 26)

---

21. List at least two devices we can use to become more energy efficient:

(Slide # 27)

---

---

22. List at least two behavior changes we can make to become more energy efficient:

(Slide # 28)

---

---

23. Write down any other questions you have in the space below and ask them to the UES presenters when they visit!