

# Fourth Grade Pre/Post

## Overview

Pre-test and post test questions are the same. Pre-testing elicits discussion involving predicting outcomes and educated guesses as to cause and effect. This is designed to make the class curious to find the answers. Post-testing ask the same questions as on a pre-test but the students should now be telling and reviewing the knowledge acquired through the activities.

## Pre/Post Questions

1. How are we using lights in our homes?
2. Do we turn off lights when we leave the room? Why?
3. Are there light bulbs in anything other than the lights you turn on using a light switch?
4. What is the difference between an incandescent and a fluorescent light? Explain how each one works.
5. What kinds of lights are used at school?
6. Are the lights at school left on when they should be turned off?
7. Why is important to conserve our energy resources?
8. Where is an incandescent bulb most commonly used?
9. Name some natural resources.
10. What is a simple electrical circuit?
11. What materials do you need to make a simple electric circuit?
12. What lighting is more efficient use of energy-incandescent or fluorescent light? Explain.
13. Fluorescent light produces what kind of light?
14. How can you use energy wisely in your home? Give an example.
15. How do you use energy wastefully in your home? Give an example.
16. What are the things to look for when doing an electrical safety check?
17. Why are clean air-filters important?
18. How can you keep windows and doors in proper repair so they do not waste energy?
19. Why does it matter which direction (north, east, south, or west) a window faces when considering energy usage?
20. Can planting trees and shrubs around your home help you save energy? How?
21. What does an electric meter measures?
22. Draw and label the components (all working parts) of a flashlight.
23. Draw and label the components (all the working parts) of a battery.
24. Explain how a battery works.