

Name: \_\_\_\_\_

## Hydroelectric Energy Exploration Sheet

Complete each item as you read about hydroelectric energy.

1. Hydropower is energy that comes from the force of \_\_\_\_\_
2. What does the word "hydro" mean? \_\_\_\_\_
3. Where are most hydroelectric plants built? \_\_\_\_\_
4. What is a reservoir?
5. The water that is piled up behind the dam is stored as \_\_\_\_\_ energy
6. When water spins a turbine it gains \_\_\_\_\_ energy.
7. The turbine is connected to a \_\_\_\_\_ that makes \_\_\_\_\_ as it spins.
8. How does electricity travel from a hydroelectric dam to a home?
9. What determines how fast water can spin a turbine?
10. Describe how a reservoir functions like a battery. In your description, write how energy is **stored**, how energy is **charged**, and how energy is **released**.
11. Name two other uses of dams besides generating electricity.
  - i. \_\_\_\_\_
  - ii. \_\_\_\_\_