

Hydroelectric Power

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*Photocopy the Student Guide as needed for use in your classroom.

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NAME _____

DATE _____

**Carolina STEM Challenge™
 Hydroelectric Power
 Questions**

1. Describe the similarities and differences between the hand generator you observed and a water wheel.
2. How might you modify the hand generator to have it serve as a motor; that is, how could you use electrical energy to turn the hand crank?
3. What about your hydroelectric power generator design worked successfully?
4. What about your hydroelectric power generator design did not work?
5. If you were to try again, how would you change your design to make your water wheel more effective?
6. How does your model compare with what you know of large-scale hydroelectric generators?
7. What are the advantages and disadvantages of using water power?