

Programming Energy	Grade 1 Energy in Our Lives
Handout	

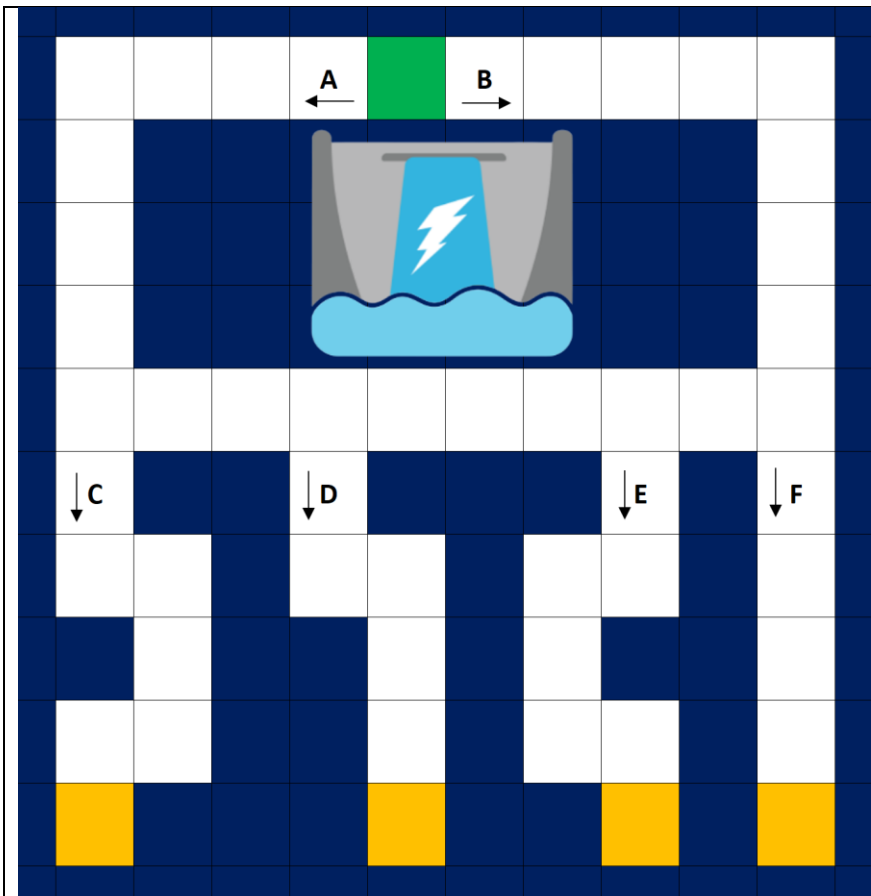
Hydroelectric Energy

Hydroelectric energy uses moving water to generate electricity. Water flowing downhill can be used to turn turbines which is converted into electricity.

Challenge

Choose the most efficient route to get from the start to the end of the map.

The most efficient route is the one with the fewest number of steps. Our energy supply is limited, we don't want to use more than we need.

	<p>1. What route did you take?</p> <p>Route: _____</p> <p>2. How many steps did you take?</p> <p>Steps: _____</p> <p>3. How many steps was the longest route?</p> <p>Steps: _____</p>
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Extension

Break the route you took into smaller steps.
 For example, to start route A, the first step is:

4 steps ←

	<p>Route breakdown:</p> <p>_____ steps _____</p> <p>_____ steps _____</p> <p>_____ steps _____</p> <p>_____ steps _____</p> <p>_____ steps _____</p> <p>_____ steps _____</p>
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