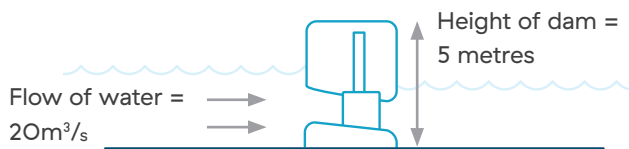


# Predicting the potential energy of a dam

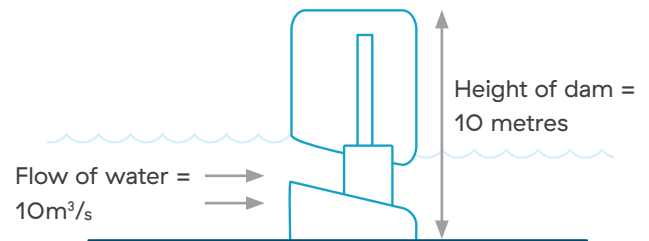
## Power Smart for Schools

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

Date: \_\_\_\_\_



**DAM A**



**DAM B**

Situation	Reasonable prediction
Which dam has the greatest potential energy?	
What will happen to the potential energy in Dam A if the height of the dam increases to 5m but the amount of water stays the same?	
What will happen to the potential energy in Dam B if the amount of water is increased from x to y but the height of the dam stays the same?	
Which dam will have the most potential energy if the amount of water decreases by half?	
The two factors that are the most important in determining the potential energy of a dam are:	
Criteria for a reasonable prediction:	
<ul style="list-style-type: none"> <li>• based on evidence: is the statement based on observable or measurable evidence?</li> <li>• logical relationship between the variables: does the statement reflect what we know about the roles that the variables play?</li> </ul>	