Grade 8

Activity: Energetic Water

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Forces and Motion What makes objects move the way they do?

Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances
8.1 An object's inertia	1. Identify the forms of energy in	C22. Calculate the
causes it to continue	the water.	average speed of a
moving the way it is	2. Demonstrate how water can be	moving object and
moving unless it is	used to do work.	illustrate the motion of
acted upon by a force		objects in graphs of
to change its motion.		distance over time.
>The motion of an		
object can be described		C23. Describe the
by its position, direction		qualitative
of motion and speed.		relationships among
>An unbalances force		force, mass and
acting on an object		changes in motion.
changes its speed and/or		
direction of motion.		

Activity: Water Crossings

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Science and Technology in Society
How do science and technology affect the quality of our lives?

Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances
8.4 In the design of	1. Analyze the influence of river	C30 Explain how
structures there is a	crossings on settlement patterns.	beam, truss and
need to consider	2. Describe water related	suspension bridges are
factors such as	transportation problems that faced	designed to withstand
function, materials,	early explorers and settlers.	the forces that act on
safety, cost and	3. Design and build water	them.
appearance.	crossing conveyances	
>Bridges can be		
designed in different		
ways to withstand		
certain loads and		
potentially destructive		
forces.		

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