Grade 4

Activity: Branching Out

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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
4.1 The position and	1. Predict where water will flow	B9. Describe the
motion of objects can	in watersheds.	effect of the mass of
be changed by pushing		an object on its
or pulling.	2. Describe drainage patterns in	motion.
>The size of the change	watersheds.	
in an object's motion is		
related to the strength of		
the push or pull.		
>The more massive an		
object is, the less effect		
a given force will have		
on its motion.		

Activity: Capture, Store, Release

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Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances
4.3 Water has a major	1. Recognize that ground water,	B13. Describe the role
role in shaping the	surface water, and precipitation	of water in erosion and
Earth's surface.	can contribute water to wetlands.	river formation.
>Water circulates		
through the Earth's	2. Describe how wetlands	
crust, oceans and	capture, store, and release water.	

atmosphere.	

Activity: Energetic Water

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Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Identify the forms of energy in	B12. Describe how the
role in shaping the	water	sun's energy impacts
Earth's surface.	2. Demonstrate how water can be	the water cycle.
> Water circulates	used to do work.	
through the Earth's		B13. Describe the role
crust, oceans and		of water in erosion and
atmosphere.		river formation.

Activity: **Every Drop Counts**

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Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Determine how water	B11. Describe how
depend on the living	conservation practices save	natural phenomena
and non-living features	water.	and some human
of the environment for	2. Identify water conservation	activities may cause
survival.	habits they can change or	changes to habitats
>When the environment	adopt.	and their inhabitants.
changes, some	3. Recognize that water	
organisms survive and	conservation is important.	

reproduce and other die	
or move to new	
locations.	

Activity: **Humpty Dumpty**

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Matter and Energy in Ecosystems How do matter and energy flow through ecosystems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Describe the challenges of	B 10. Describe how
depend on the living	restoring an altered natural	animals, directly or
and nonliving features	landscape.	indirectly, depend on
of the environment for	2. Develop a restoration plan for	plants to provide the
survival.	a local site.	food and energy they
>When the environment		need in order to grow
changes, some		and survive.
organisms survive and		
reproduce and others die		B11. Describe how
or move to new		natural phenomena
locations.		and some human
		activities may cause
		changes to habitats
		and their inhabitants.

Activity: Imagine!

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Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances

4.3 Water has a major	1. Identify changes in states of	B12. Describe how the
role in shaping the	water that enable water to	sun's energy impacts
Earth's surface.	move through the water cycle.	the water cycle.
>Water circulates	2. Describe the water cycle.	
through the Earth's		
crust, oceans and		
atmosphere.		

Activity: Just Passing Through

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Matter and Energy in Ecosystems How do matter and energy flow through ecosystems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Compare the rates at which	B11. Describe how
depend on the living	water flows down slopes with	natural phenomena
and nonliving features	and without plant cover.	and some human
of the environment for	2. Identify Best Management	activities may cause
survival.	Practices that can be used to	changes to habitats
>When the environment	reduce erosion.	and their inhabitants.
changes, some		
organisms survive and		
reproduce and others die		
or move to new		
locations.		

Activity: Just Passing Through

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Content Standards	Activity Objectives	CMT
		Correlation/Expected Performances
4.3 Water has a major role in shaping the Earth's surface. >Water circulates through the Earth's crust, oceans and atmosphere	 Compare the rates at which water flows down slopes with and without plant cover. Identify Best Management Practices that can be used to reduce erosion. 	B13. Describe the role of water in erosion and river formation.

Activity: Let's Even Things Out

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Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Describe and demonstrate the	B12. Describe how the
role in shaping the	processes of osmosis and	sun's energy impacts
Earth's surface.	diffusion.	the water cycle.
>Water circulates		
through the Earth's		
crust, oceans, and		
atmosphere.		

Activity: Life In the Fast Lane

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Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances

4.2 Al organisms	1. Describe physical and	B10. Describe how
depend on the living	biological components of	animals, directly or
and non-living features	temporary wetlands.	indirectly, depend on
of the environment for		plants to provide the
survival.	2. Recognize the importance of	food and energy they
>When the environment	temporary wetlands to larger	need in order to grow
changes, some	ecosystems.	and survive.
organisms survive and		
reproduce and other die	3. Explain how organisms in	B11. Describe how
or move to new	temporary wetlands race against	natural phenomena
locations.	time to obtain water, shelter, food,	and some human
	and a mate.	activities may cause
		changes to habitats
		and their inhabitants.

Activity: Macroinvertebrate Mayhem

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Content Standards		Activity Objectives	CMT
			Correlation/Expected
			Performances
4.2 All organisms	1.	Illustrate how tolerance to	B10. Describe how
depend on the living		water quality conditions varies	animals directly or
and nonliving features		among macroinvertebrate	indirectly, depend on
of the environment for		organisms.	plants to prove the
survival.	2.	Explain how population	food and energy they
>When the environment		diversity provides insight into	need in order to grow
changes, some		the health of an ecosystem.	and survive.
organisms survive and			
reproduce and others die			B11. Describe how
or move to new			natural phenomena
locations.			and some human
			activities may cause
			changes to habitats
			and their inhabitants.

Activity: Molecules In Motion

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Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances
4.3 Water has a major	1. Model the effects of heat	B12. Describe how
role in shaping the	energy on the state of water.	the sun's energy
Earth's surfaces.		impacts the water
>Water circulates		cycle.
through the Earth's		
crust, oceans and		
atmospheres.		

Activity: Old Water

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Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standard	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Appreciate the age of water	B12. Describe how the
role in shaping the		sun's energy impacts
Earth's surface.	2. Compare the proportion of	the water cycle.
>Water circulates	time that water and life	
through the Earth's	processes have existed on	B13. Describe the role
crust, oceans and	Earth	of water in erosion and
atmosphere		river formation.

Activity: Rainy-Day Hike

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Earth Science/Environmental Science Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT Correlation/Expected
		Performances
4.3 Water has a major	1. Identify the	B12. Describe how the sun's energy
role in shaping the	watershed in which	impacts the water cycle.
Earth's surface.	their school is	
>Water circulates	located.	B13. Describe the role of water in
through the Earth's crust, oceans and atmosphere.	Explain the role the schoolyard plays in the watershed.	erosion and river formation.

Activity: Reaching Your Limits

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Matter and Energy in Ecosystems How do matter and energy flow through ecosystems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Describe the relationship	B11. Describe how
depend on the living	between water quality and	natural phenomena
and non-living features	water treatment.	and some human
of the environment for	2. Be aware of the ratio of one to	activities may cause
survival.	a million.	changes to habitats
>When the environment		and their inhabitants.
changes, some		
organisms survive and		
reproduce and other die		
or move to new		
locations.		

Activity: Salt Marsh Players

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Matter and Energy in Ecosystems How do matter and energy flow through ecosystems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Demonstrate how various salt	B10. Describe how
depend on the living	marsh plants and animals	animals, directly or
and nonliving features	adapt to environmental	indirectly, depend on
of the environment for	conditions	plants to provide the
survival.	2. Recognize various plants and	food and energy they
>When the environment	animals that live in salt	need in order to grow
changes, some	marshes	and survive.
organisms survive and		
reproduce and others die		B11. Describe how
or move to new		natural phenomena
locations.		and some human
		activities may cause
		changes to habitats
		and their inhabitants.

Activity: Sum of the Parts

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Content Standards		Activity Objectives	CMT
			Correlation/Expected
			Performances
4.3 Water has a major	1.	Distinguish between point	B12. Describe how the
role in shaping the		and non-point source	sun's energy impacts
Earth's surface.		pollution.	the water cycle.
>Water circulates	2.	Recognize that everyone	
through the Earth's		contribute to and is	B13. Describe the role
crust, oceans and		responsible for a river or	of water in erosion and
atmosphere.		lake's water quality.	river formation.
	3.	Identify Best Management	
		Practices to reduce pollution.	

Activity: The Incredible Journey

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Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Describe the movement of	B12. Describe how
role in shaping the	water within the water cycle.	the sun's energy
Earth's surface. >Water circulates through the Earth's	2. Identify the states of water as it moves through the water cycle.	impacts the water cycle.
crust, oceans and atmosphere.		B13. Describe the role of water in erosion and river formation.

Activity: The Life Box

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Content Standards	Activity Objectives	CMT
(focus of standard)	(from Project WET activity)	Correlation/Expected
		Performances
4.2 All organisms	1. Identify four essential factors	B10. Describe how
depend on the living	necessary for life.	animals, directly or
and non-living features		indirectly, depend on
of the environment for	2. Explain how living things use	plants to provide the
survival.	these four factors.	food and energy they
>When the environment		need to order to grow
changes, some		and survive.
organisms survive and		
reproduce and others die		
or move to new		
locations.		

Activity: Water Address

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Matter and Energy in Ecosystems How do matter and energy flow through ecosystems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Recognize water-related	B10. Describe how
depend on the living	adaptations of some plants and	animals, directly or
and non-living features	animals.	indirectly, depend on
of the environment for		plants to provide the
survival.		food and energy they
>When the environment		need in order to grow
changes, some		and survive.
organisms survive and		
reproduce and others die		B11. Describe how
or move to new		natural phenomena
locations.		and some human
		activities may cause
		changes to habitats
		and their inhabitants.

Activity: Water Crossings

Page: 421

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
4.1 The position and	1. Analyze the influence of river	B9. Describe the
motion of objects can	crossings on settlement patterns.	effect of the mass of
be changed by pushing		an object on its
or pulling.	2. Describe the water-related	motion.
>The size of the change	transportation problems that faced	
in an object's motion is	early explorers and settlers.	
related to the strength of		
the push or pull.	3. Design and build water-	
>The more massive an	crossing conveyances.	
object is, the less effect		
a given force will have		

on its motion.	

Activity: Water Models

Page: 201

Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT Correlation/Expected Performances
4.3 Water has a major role in shaping the Earth's surface. >Water circulates through the Earth's crust, oceans and atmosphere.	 Recognize the roles of condensation and evaporation in the water cycle. Relate the water cycle to different climates and ecosystems around the world. 	B12. Describe how the sun's energy impacts the water cycle. B13. Describe the role of water in erosion and river formation.

Activity: Water Works

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Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.2 All organisms	1. Distinguish between direct	B11. Describe how
depend on the living	and indirect uses of water.	natural phenomena
and non-living	2. Illustrate the	and some human
features of the	interconnectedness of water	activities may cause
environment for	users in a community. 3. Demonstrate the complexity	changes to habitats
survival.	of resolving water shortages	

>When the environment	among interdependent	and their inhabitants.
changes, some	community water users.	
organisms survive and		
reproduce and others die		
or move to new		
locations.		

Activity: Water Works

Page: 274

Energy in the Earth's Systems How do external and internal sources of energy affect the Earth's systems?

Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Distinguish between direct	B13. Describe the
role in shaping the	and indirect uses of water.	role of water in
Earth's surface.	2. Illustrate the	erosion and river
>Water circulates	interconnectedness of water	formation.
through the Earth's	users in a community. 3. Demonstrate the complexity	
crust, oceans and	of resolving water shortages	
atmosphere.	among interdependent	
	community water users.	

Activity: What's the Solution?

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Content Standards	Activity Objectives	CMT
		Correlation/Expected
		Performances
4.3 Water has a major	1. Discriminate solutions from	B12. Describe how the
role in shaping the	other mixtures.	sun's energy impacts
Earth's surface.	2. Demonstrate the water's ability	the water cycle.
>Water circulates	to dissolve solids, liquids and	
through the Earth's	gases.	

Project Wet Correlations to the CT Science Curriculum Framework, page 14

crust, oceans and atmosphere.	

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