Grade 10

Activity: Color Me a Watershed

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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 Correlation/Expected
			Performances
10.6 Living organisms	1.	Recognize that population	D43. Describe the factors that
have the capability of		growth and settlement cause	affect carrying capacity of the
producing population		changes in land use.	environment.
of unlimited size, but	2.	Analyze how land use	
the environment can		variations in a watershed can	D44. Explain how change in
support only a limited		affect the runoff of water.	population density is affected
number of individuals			by emigration, immigration,
from each species.			birth rate and death rate, and
>Human populations			relate these factors to the
grow due to advances in			exponential growth of human
agriculture, medicine,			populations.
construction and the use			
of energy.			D45. Explain how
> Humans modify			technological advances have
ecosystems as a result of			affected the size and growth
rapid population			rate of human populations
growth, use of			throughout history.
technology and			
consumption of			
resources.			

Activity: **Dust Bowls and Failed Levees**

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

Content Standards	Activity Objectives	CMT Correlation/Expected
(focus of standard)	(from Project WET activity)	Performances
10.6 Living organisms	1. Illustrate the effects of	D43. Describe the factors that
have the capability of	drought, flood, and other water-	affect the carrying capacity of
producing populations	related disasters on human lives,	the environment.
of unlimited size, but	through creative writing.	
the environment can		D44. Explain how change in
support only a limited		population density is affected
number of individuals		by emigration, immigration,
from each species.		birth rate, and death rate, and
>Human populations		related these factors to the
grow due to advances in		exponential growth of human
agriculture, medicine,		population.
construction and the use		
of energy.		
>Humans modify		
ecosystems as a result of		
rapid population growth,		
use of technology and		
consumption of		
resources.		

Activity: People of the Bog

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Heredity and Evolution What processes are responsible for life's unity and diversity?

Content Standards	Activity Objectives	CMT Correlation/Expected
(focus of standard)	(from Project WET activity)	Performances
10.5 Evolution and	1. Describe characteristics of bog	D41. Explain how the current
biodiversity are the	environments.	theory of evolution provides a
result of genetic	2. Explain the conditions of bogs	scientific explanation for
changes that occur	that allow for the preservation of	fossil records of ancient life
over time in constantly	artifacts from the past.	forms.
changing		
environments.		D42. Describe how structural
>Changes in the		and behavioral adaptations
environment may result		increase the chances for
in the selection of		organisms to survive in their
organisms that are better		environments.
able to survive and		
reproduce.		

Activity: Super Sleuths

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Content Standards	Activity Objectives	CMT Correlation/Expected Performances
10.2 Microorganisms have an essential role	Identify the role of water in transmitting diseases.	D31. Describe the similarities and differences between
in life processes and cycles on Earth. >Understanding the growth and spread patterns of viruses and bacteria enables the development of methods to prevent and treat infectious diseases.	2. Compare symptoms of several waterborne diseases.3. Analyze the characteristics of environments that promote the transmission of these diseases around the world.	bacteria and viruses. D32. Describe how bacterial and viral infectious diseases are transmitted, and explain the roles of sanitation, vaccination and antibiotic medications in the prevention and treatment of infectious diseases.

Activity: The Long Haul

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Science and Technology
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Content Standards	Activity Objectives	CMT Correlation/Expected
(focus of standard)	(from Project WET activity)	Performances
10.6 Living organisms	1. Develop an awareness of	D43. Describe the factors that
have the capability of	various volumes of water.	affect the carrying capacity of
producing populations	2. Appreciate today's readily	the environment.
of unlimited size, but	available water supplies.	
the environment can	3. Relate how east access to	D45. Explain how
support only a limited	water can encourage people to use	technological advances have
number of individuals	large amounts of water.	affected the size and growth
from each species.		rate of human populations
>Human populations		throughout history.
grow due to advances in		
agriculture, medicine,		
construction and the use		
of energy.		
>Humans modify		
ecosystems as a result of		
rapid population growth,		
use of technology and		

consumption of	
resources.	

Activity: Water Crossings

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

Content Standards	Activity Objectives	CMT Correlation/Expected
(focus of standard)	(from Project WET activity)	Performances
10.6 Living organisms	1. Analyze the influence of river	D43. Describe the factors that
have the capability of	crossings on settlement patterns.	affect the carrying capacity of
producing populations	2. Describe the water related	the environment.
of unlimited size, but	transportation problems that faced	
the environment, can	early explorers and settlers.	D44. Explain how change in
support only a limited		population density is affected
number of individuals		by emigration, immigration,
from each species.		birth rate, and death rate, and
>Human populations		relate these factors to the
grow due to advances in		exponential growth of human
agriculture, medicine,		populations.
construction and the use		
of energy.		D45. Explain how
>Humans modify		technological advances have
ecosystems as a result of		affected the size and growth
rapid population growth,		rate of human populations
use of technology and		throughout history.
consumption of		
resources.		

Activity: Whose Problem is it?

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Content Standards		Activity Objectives	CMT Correlation/Expected
			Performances
10.6 Living organisms	1.	Analyze how water issues	D44. Explain how change in
have the capability of		affect individuals as well as	population density is affected
producing populations		world populations, and how	by emigration, immigration,
of unlimited size, but		these issues can have short-	birth rate and death rate, and
the environment can		and/or long-term	relate these factors to the
support only a limited		implications.	exponential growth of human
number of individuals	2.	Illustrate the scope and	populations.
from each species.		duration of water-related	
>Human populations		issues.	D45. Explain how
grow due to advances in			technological advances have
agriculture, medicine,			affected the size and growth
construction and the use			rate of human populations
of energy.			throughout history.
>Humans modify			
ecosystems as a result of			
rapid population			
growth, use of			
technology and			
consumption of			
resources.			

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