UNIT B: LESSON 1

LEARNING TARGETS

INSTRUCTIONS FOR STUDENTS: Listen as your teacher reviews the standards and objectives. Your teacher will call on an individual or pair to explain what they mean.	
Learning Target: I can **analyze** the **main** ideas and **supporting details presented** in in a video clip. Learning Target: I can **analyze** the basic **structure** of a **complex** sentence.	***analyze*** – study something and explain it ***main*** – central or most important ***supporting details*** – helping ideas ***present*** – show ***structure*** – the way parts of something are joined together ***complex*** – something that has many different parts

ACQUIRING AND USING VOCABULARY

INSTRUCTIONS FOR STUDENTS:
Your teacher will pre-teach several key words. Use your glossary for the rest of the lesson to find meanings for words you don't know. Words that are **bolded** in the text and word banks can be found in the glossary. The glossary is located in the Appendix at the end of the lesson.

THINKING LOG

INSTRUCTIONS FOR STUDENTS:
Your teacher will ask you a guiding question that you will think about as your teacher reads the text aloud to you. As your teacher reads the text aloud, listen and follow along in your text. After the text has been read aloud, work with a partner to reread the text and answer the supplementary questions. Use your glossary to help you. Your teacher will review the answers with the class. You will then discuss the guiding question(s) with your teacher and the class. Finally, you will complete a written response to the guiding question(s).

GUIDING QUESTION: *Why is it important to understand how valuable the resource of water is for all of us living on Earth?*

Why Care about Water?

http://video.nationalgeographic.com/video/environment/freshwater/env-freshwater-whycare/.

Water is the **basis** of life and only a tiny **share** of all the water on Earth is **fresh** and **renewed** by the water **cycle.** If you took all the water in the world and put it into a gallon jug, less than one teaspoon of it would be **available** to us.

We're **overusing** it. We're over**tapping** rivers and we're over**pumping** groundwater. We live at a time in history where over a **billion** people don't have **access** to safe drinking water and over three **billion** people have no **access** to **sanitation**.

Water is a **global issue** but it's also a very local **issue.** We forget that we live on a **hydrosphere** and that all of our water **resources** are **connected**. Water that runs in the Ganges could also end up in the Hudson or could fall over the plains of Africa or could make a cup of tea in the Queen's palace.

To support the average American lifestyle today takes about twice the **global average**.

The great American lawn is a great example of one of the **myriad** of ways that we take water **for granted.** We can't continue to flaunt our water.

Agriculture is something that we really need to give thought to.

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Seventy **percent** of all the water we **extract** from rivers, lakes, and aquifers goes to irrigated **agriculture**. To some extent we're using some of tomorrow's water to meet today's food **demands**.

When a large number of people I talked to learned that the Colorado River, the mighty force of nature, no longer reaches the sea, there's a look of shock in most people's faces. The Delta **literally** runs dry.

We are using and **abusing** our water **resources** in ways that are completely **unsustainable,** and unless we think about it that way and we start taking action at an **individual** level, then I don't really see how we'll be able to **overcome** so many of the **issues** that we're going to be faced with in the next 50 years. This is our time in history to do something about it.

WORD BANK:

action	**fresh**	important	seventy
Africa	full gallon	lawn	tea
agriculture	Ganges	local	teaspoon
clean	**global**	**myriad**	tiny
crops	**for granted**	**renewed**	too much
drinking	green	**resources**	**unsustainable**
Earth	ground	rivers	water
extract	Hudson	**sanitation**	

SUPPLEMENTARY QUESTIONS:

1. According to the video text, what is the basis of life?
The basis of life is _____.

2. The water cycle is when water evaporates, or turns into steam, becomes clouds, and then rains or snows back to earth. How much water on Earth is fresh and is renewed, or comes back to us by the water cycle?
There is only a_____amount of water on Earth that is _____and _____by the water cycle.

3. What example does the author use to describe how much water on Earth is available to us?
The author uses the example of a _____jug. Only one _____of the jug would be water that is available to us.

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4. What does it mean to overuse, overtap and overpump?
The prefix over- means _____. We are using _____water. We are tapping, or taking, _____water from _____. We are pumping _____water from under the _____.

5. At this time in history, what is it that a billion people do not have?
At this time in history, a billion people do not have access to _____water for _____.

6. At this time in history, what do three billion people not have?
At this time in history, three billion people do not have access to _____.

7. What is another way of saying that water is an issue, or problem, around the world and an issue where we live?
Water is a _____issue but it's also a _____issue.

8. The next sentence says, "We forget that we live on a hydrosphere and all of our water resources are connected." What does this mean?
It means that we forget that _____is a hydrosphere, where _____in one place can end up in another place.

9. What example is given for the way water is connected all over the earth?
The same water that was in the _____River could over time be in the _____River or could fall as rain in _____or be used to make _____for the Queen of England.

10. The text says, "To support the average American lifestyle today takes about twice the global average." Does this mean that most Americans use more or less water than most people around the globe (the earth)?
It means that most Americans use _____ (more/less) than most people around the globe.

11. What is an example of the many ways Americans use a lot of water and take water for granted?
The great American _____is a one example of the _____ (many) ways that we take water _____.

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12. Why is the great American lawn a symbol for not appreciating the value of water?
The great American lawn (a large area of green, green grass) uses a lot of _____to stay _____. If Americans value, or care about, _____, why would they use it for this purpose?

13. What do we need to give thought to (think about)?
We need to give thought to _____.

14. Why do we need to give thought to agriculture?
We need to give thought to agriculture because _____percent of water we _____ (take) from rivers, lakes, and aquifers is used for irrigating _____ (plants grown for food).

15. Is 70% a lot of water or just a little bit of water?
Seventy percent is _____ (a lot/a little bit) of water.

16. Why do you think the Colorado River becomes dry before it reaches the sea?
The Colorado River runs dry because so much of the water in the river is used for _____.

17. How will we be able to overcome the water issues we will face within the next 50 years?
We need to understand how our use of water is _____, and we need to take _____as individuals.

18. What is the author's intent in ending the video text with, "This is our time in history to do something about it?"
The author wants the listener to understand how _____it is that we do something now to save our very valuable water _____.

RESPONSE TO GUIDING QUESTION(S):
Why is it important to understand how valuable the resource of water is for all of us living on Earth?
Response:
_____
_____
_____.

WATER NOTE-CATCHER

INSTRUCTIONS FOR STUDENTS:
Work with a partner. Use your water note-catcher to write down key, or important, information from the text. You will write down main ideas and some details, or specific information, about each main idea. You can use information from your Thinking Log. Some information is already filled in for you.

WORD BANK:
access, agriculture, Americans, **available**, **billions**, change, **connected**, dry, **global**, lawns, life, little, **overusing**, much, **resources**, water

Brief background:

Water is the basis of _____. But there is really very _____water _____for us to use.

Main idea:	**Supporting details**:
Water is a _____issue or problem.	All of our water _____are _____. _____of people do not have adequate, or enough, _____to water.
Main idea:	**Supporting details**:
_____are _____our water. Americans use too much water.	_____use more water than the _____average. We use water for _____. We use water for _____. We use so much water that the Colorado River is _____.

Conclusion:

Americans use too _____water. We need to _____the way we use _____.

FUNCTIONAL ANALYSIS

INSTRUCTIONS FOR STUDENTS:
Work with your class to analyze an important sentence(s) from the text.

- Every sentence has someone or something that *does* something. First you determine this *who or what*.
- Every sentence has something that they *do or did.* Figure that part out next. Now you have the most important parts of the sentence in place.
- Then you will figure out what they did the action *to or for*.
- Finally, you will write the descriptive details.
- Write your answers in the spaces below.
- When you are done, write the sentence again in your own words.

You may want to use definitions from the glossed text in the sections above.

Functional Analysis:

We forget that we live on a hydrosphere and that all of our water resources are connected.

WHO (Actor): _____

WHAT HAPPENS (Action): _____

WHAT: *that we* _____

WHERE (Detail): *on a* _____

CONNECTOR: *and that*

WHO (Actor): *all of our* _____

WHAT HAPPENS (Action): *are* _____

What the sentence says:	**My own words:**
we	*all of us*
forget	*forget*
that we live on a hydrosphere	*that we* _____
and that	*and we forget that*
that all of our water resources	*all* _____
are connected	*are* _____

Write the sentence in your own words and then explain it to your partner.
We forget that _____.
And we forget that _____.

EXIT TICKET

INSTRUCTIONS FOR STUDENTS: This graphic organizer will help you keep track of information about water for all of the readings. Each day you will write down new information from each reading. • First, write information about why water sustainability is important. Think of at least three reasons. • Next, write what else you want to learn about water sustainability.	
Water sustainability means using water without using it up. Why is water sustainability important?	Water is the basis of _____. Many people in the world do not have enough water to _____.
What else do I want to learn about water sustainability?	_____ _____ _____ _____ _____ _____ _____ _____.

Appendix: Glossary

Word	Definition	Example
abuse (abusing)	misuse; use in a bad or incorrect way	We are using and **abusing** our water resources**.**
access	the right or ability to use something	Over a billion people do not have **access** to safe drinking water.
agriculture	the science or activity of farming; agriculture includes raising crops and animals for food	Seventy percent of all the water we extract from rivers, lakes, and aquifers goes to irrigated **agriculture**.
available	possible to get something	If you took all the water in the world and put it into a gallon jug, less than one teaspoon of it would be **available** to us.
average	a) usual or normal b) the mathematical mean (obtained, or gotten by adding several numbers and dividing the sum of the numbers by the quantity of numbers)	a) To support the **average** American lifestyle today b) takes about twice the global **average** daily water usage.
basis	foundation; main component, or part	Water is the **basis** of life.
billion	1,000,000,000	We live at a time in history where over a **billion** people don't have access to safe drinking water and over three **billion** people have no access to sanitation.
connected	joined together	We forget that we live on a hydrosphere and that all of our water resources are **connected**.

Word	Definition	Example
cycle	a circle of events that starts from the beginning again and again	Water is the basis of life and only a tiny share of all the water on Earth is fresh and renewed by the water **cycle.**
demand	requirement or need	We're using some of tomorrow's water to meet today's food **demands.**
extract	remove	Seventy percent of all the water we **extract** from rivers, lakes, and aquifers goes to irrigated agriculture.
for granted	assume, or think, that something will always be there without any effort or work	The great American lawn is a great example of one of the myriad of ways that we take water **for granted.**
fresh	not salty	Water is the basis of life and only a tiny share of all the water on Earth is **fresh**.
global	worldwide	Water is a **global** issue but it's also a very local issue.
hydrosphere	all the waters on the earth's surface, such as lakes and seas, and sometimes including water over the earth's surface, such as clouds	We forget that we live on a **hydrosphere** and that all of our water resources are connected.
individual	a single human being; person	We need to start taking action at an **individual** level to overcome the issues that we're going to be faced with in the next 50 years.
issue	an important topic or problem	Water is a global **issue** but it's also a very local **issue.**
literal (literally)	true to fact	The Delta **literally** runs dry.
myriad	many	The great American lawn is a great example of one of the **myriad** of ways that we take water for granted**.**

Word	Definition	Example
overcome	win against; defeat	We need to start taking action at an individual level to **overcome** the issues that we're going to be faced with in the next 50 years.
overusing	using too much	We're **overusing** it.
percent	one part of each hundred, sometimes written %	Seventy **percent** of all the water we extract from rivers, lakes, and aquifers goes to irrigated agriculture.
pump	to move water using a pump (a special machine)	We're over-tapping rivers and we're over-**pumping** groundwater.
renew	restore or return to an original condition	Water is the basis of life and only a tiny share of all the water on Earth is fresh and **renewed** by the water cycle.
resource	a useful thing that grows or exists in the world	We forget that we live on a hydrosphere and that all of our water **resources** are connected.
sanitation	keeping healthy through clean living conditions; Sanitation includes removing trash and keeping drinking water clean	Over three billion people have no access to **sanitation**.
share	portion or part	Only a tiny **share** of all the water on Earth is fresh.
sustainable (unsustainable)	using a resource without using it all up (*unsustainable is the opposite; it means to use a resource in such a way that you will use it up*)	We are using and abusing our water resources in ways that are completely **unsustainable**.
tap	draw, or pull, water out of something	We're over**tapping** rivers and we're overpumping groundwater.