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.

<table>
<thead>
<tr>
<th>Learning Target:</th>
<th>analyze – study something and explain it</th>
</tr>
</thead>
<tbody>
<tr>
<td>I can analyze the main ideas and supporting details presented in a video clip.</td>
<td>main – central or most important</td>
</tr>
<tr>
<td></td>
<td>supporting details – helping ideas</td>
</tr>
<tr>
<td>Learning Target:</td>
<td>present – show</td>
</tr>
<tr>
<td>I can analyze the basic structure of a complex sentence.</td>
<td>structure – the way parts of something are joined together</td>
</tr>
<tr>
<td></td>
<td>complex – something that has many different parts</td>
</tr>
</tbody>
</table>

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?**


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 **overtapping** rivers and we’re **overpumping** 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.
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:

<table>
<thead>
<tr>
<th>Action</th>
<th>Fresh</th>
<th>Important</th>
<th>Seventy</th>
<th>Tea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Africa</td>
<td>Full gallon</td>
<td>Lawn</td>
<td>Local</td>
<td>Teaspoon</td>
</tr>
<tr>
<td>Agriculture</td>
<td>Ganges</td>
<td>Global</td>
<td>Myriad</td>
<td>Tiny</td>
</tr>
<tr>
<td>Clean</td>
<td>For granted</td>
<td>Resources</td>
<td>Renewed</td>
<td>Too much</td>
</tr>
<tr>
<td>Crops</td>
<td>Green</td>
<td>Earth</td>
<td>Renewed</td>
<td>Water</td>
</tr>
<tr>
<td>Drinking</td>
<td>Green</td>
<td>Extract</td>
<td>Hudson</td>
<td>Sanitation</td>
</tr>
</tbody>
</table>

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.
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:
Water is a _______issue or problem.

## Supporting details:
All of our water _______are _________. _________of people do not have adequate, or enough, _________to water.

## Main idea:
_______are _________our water. Americans use too much water.

## Supporting details:
_______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 _________.

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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 _______________________.

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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. | Water is the basis of ___________.
| Why is water sustainability important? | Many people in the world do not have enough water to _______________________________.
| What else do I want to learn about water sustainability? |____________________________________________________
| | __________________________________________________
| | __________________________________________________
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## Appendix: Glossary

<table>
<thead>
<tr>
<th>Word</th>
<th>Definition</th>
<th>Example</th>
</tr>
</thead>
<tbody>
<tr>
<td>abuse</td>
<td>misuse; use in a bad or incorrect way</td>
<td>We are using and <strong>abusing</strong> our water resources.</td>
</tr>
<tr>
<td>access</td>
<td>the right or ability to use something</td>
<td>Over a billion people do not have <strong>access</strong> to safe drinking water.</td>
</tr>
<tr>
<td>agriculture</td>
<td>the science or activity of farming; agriculture includes raising crops and animals for food</td>
<td>Seventy percent of all the water we extract from rivers, lakes, and aquifers goes to irrigated <strong>agriculture</strong>.</td>
</tr>
<tr>
<td>available</td>
<td>possible to get something</td>
<td>If you took all the water in the world and put it into a gallon jug, less than one teaspoon of it would be <strong>available</strong> to us.</td>
</tr>
<tr>
<td>average</td>
<td>a) usual or normal</td>
<td>a) To support the <strong>average</strong> American lifestyle today</td>
</tr>
<tr>
<td></td>
<td>b) the mathematical mean (obtained, or gotten by adding several numbers and dividing the sum of the numbers by the quantity of numbers)</td>
<td>b) takes about twice the global <strong>average</strong> daily water usage.</td>
</tr>
<tr>
<td>basis</td>
<td>foundation; main component, or part</td>
<td>Water is the <strong>basis</strong> of life.</td>
</tr>
<tr>
<td>billion</td>
<td>1,000,000,000</td>
<td>We live at a time in history where over a <strong>billion</strong> people don’t have access to safe drinking water and over three <strong>billion</strong> people have no access to sanitation.</td>
</tr>
<tr>
<td>connected</td>
<td>joined together</td>
<td>We forget that we live on a hydrosphere and that all of our water resources are <strong>connected</strong>.</td>
</tr>
<tr>
<td>Word</td>
<td>Definition</td>
<td>Example</td>
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<tr>
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<td>---------------------------------------------------------------------------</td>
<td>-------------------------------------------------------------------------</td>
</tr>
<tr>
<td>cycle</td>
<td>a circle of events that starts from the beginning again and again</td>
<td>Water is the basis of life and only a tiny share of all the water on Earth is fresh and renewed by the water <strong>cycle</strong>.</td>
</tr>
<tr>
<td>demand</td>
<td>requirement or need</td>
<td>We're using some of tomorrow's water to meet today's food <strong>demands</strong>.</td>
</tr>
<tr>
<td>extract</td>
<td>remove</td>
<td>Seventy percent of all the water we <strong>extract</strong> from rivers, lakes, and aquifers goes to irrigated agriculture.</td>
</tr>
<tr>
<td>for granted</td>
<td>assume, or think, that something will always be there without any effort or work</td>
<td>The great American lawn is a great example of one of the myriad of ways that we take water <strong>for granted</strong>.</td>
</tr>
<tr>
<td>fresh</td>
<td>not salty</td>
<td>Water is the basis of life and only a tiny share of all the water on Earth is <strong>fresh</strong>.</td>
</tr>
<tr>
<td>global</td>
<td>worldwide</td>
<td>Water is a <strong>global</strong> issue but it's also a very local issue.</td>
</tr>
<tr>
<td>hydrosphere</td>
<td>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</td>
<td>We forget that we live on a <strong>hydrosphere</strong> and that all of our water resources are connected.</td>
</tr>
<tr>
<td>individual</td>
<td>a single human being; person</td>
<td>We need to start taking action at an <strong>individual</strong> level to overcome the issues that we're going to be faced with in the next 50 years.</td>
</tr>
<tr>
<td>issue</td>
<td>an important topic or problem</td>
<td>Water is a global <strong>issue</strong> but it's also a very local <strong>issue</strong>.</td>
</tr>
<tr>
<td>literal (literally)</td>
<td>true to fact</td>
<td>The Delta <strong>literally</strong> runs dry.</td>
</tr>
<tr>
<td>myriad</td>
<td>many</td>
<td>The great American lawn is a great example of one of the <strong>myriad</strong> of ways that we take water for granted.</td>
</tr>
<tr>
<td>Word</td>
<td>Definition</td>
<td>Example</td>
</tr>
<tr>
<td>------------------</td>
<td>-----------------------------------------------------</td>
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</tr>
<tr>
<td>overcome</td>
<td>win against; defeat</td>
<td>We need to start taking action at an individual level to <strong>overcome</strong> the issues that we’re going to be faced with in the next 50 years.</td>
</tr>
<tr>
<td>overusing</td>
<td>using too much</td>
<td>We’re <strong>overusing</strong> it.</td>
</tr>
<tr>
<td>percent</td>
<td>one part of each hundred, sometimes written %</td>
<td>Seventy <strong>percent</strong> of all the water we extract from rivers, lakes, and aquifers goes to irrigated agriculture.</td>
</tr>
<tr>
<td>pump</td>
<td>to move water using a pump (a special machine)</td>
<td>We’re over-tapping rivers and we’re over-<strong>pumping</strong> groundwater.</td>
</tr>
<tr>
<td>renew</td>
<td>restore or return to an original condition</td>
<td>Water is the basis of life and only a tiny share of all the water on Earth is fresh and <strong>renewed</strong> by the water cycle.</td>
</tr>
<tr>
<td>resource</td>
<td>a useful thing that grows or exists in the world</td>
<td>We forget that we live on a hydrosphere and that all of our water <strong>resources</strong> are connected.</td>
</tr>
<tr>
<td>sanitation</td>
<td>keeping healthy through clean living conditions; Sanitation includes removing trash and keeping drinking water clean</td>
<td>Over three billion people have no access to <strong>sanitation</strong>.</td>
</tr>
<tr>
<td>share</td>
<td>portion or part</td>
<td>Only a tiny <strong>share</strong> of all the water on Earth is fresh.</td>
</tr>
<tr>
<td>sustainable (unsustainable)</td>
<td>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)</td>
<td>We are using and abusing our water resources in ways that are completely <strong>unsustainable</strong>.</td>
</tr>
<tr>
<td>tap</td>
<td>draw, or pull, water out of something</td>
<td>We’re over-tapping rivers and we’re overpumping groundwater.</td>
</tr>
</tbody>
</table>