Module Overview

Target Language: Arabic Grade Level: 2

Proficiency Level: Junior Novice Low

Summary: Students will discover that much of the Earth is made up of water. They will identify various bodies of water and name the three states of water.

Enduring Understanding: There is more water than land on Earth and water can be found in different places and forms.

Essential Questions: Where can we find water? What happens to water?

Standards Targeted

5C – World Language Standards

Communication

- Students understand spoken and written language on very familiar topics in the target language that promote the learning of basic linguistic structures.
 (1.2A)
- Students engage in brief exchanges about personal interests. (1.3A)

Connections

 Students access new information and reinforce existing knowledge of other content areas through the target language (3.1A)

5E - STEM Standards

2.ECS Earth's Changing Surface

Students who demonstrate understanding can:

a. Obtain and communicate information that water exists in different forms within natural landscapes and determines the variety of life forms that can live there.

Technology

- 1. A.1 Use and understand how technology enhances learning
- 3. C.1 Use and understand how technology increases productivity
- 4. A.1 Identify and understand how technology is used for communication
- 4. B.1 Identify and understand how technology is used to express ideas

Math Common Core

- 1. MD. 4 Organize, represent, and interpret data with up to three categories.
- K. MD. 2 Describe and Compare measurable attributes.
- K. MD. 3 Classify Objects and count the number of objects in each category.
- PK. MD. 4 Compare categories using words such as more or same

| Knowledge: Students will know | Skills: Students can |
|---|---|
| Vocabulary Bodies of water 3 states of water Water cycle | Identify and name bodies of water. Name the 3 states of water (solid, liquid and gas states) Express that there is more water than land on Earth. |
| Expressions and patterns: Where and what patterns More or less Be able to make simple statements Be able to ask and answer simple questions | |

Module Duration and Lessons: Five 30-minute lessons

الدرس الأول: الماء الماء هنا وهناك، في كل مكان ?Lesson 1 – Where in the World is Water

الدرس الثاني: أين يذهب الماء؟ ?Lesson 2 – Where Does Water Go

الدرس الثالث – هل الماء دائماً ماء؟ ?Lesson 3 – Is Water Always Water

الدرس الرابع: لماذا يتغير الماء؟ ?Lesson 4 – How Does Water Change

الدرس الخامس- نشاط تقييميLesson 5 – Assessment Task

Performance Assessment:

What culminating performance tasks will provide evidence that students have achieved the program learning objectives? Consider providing opportunities for students to be assessed for each mode of communication through interpretive, interpersonal and presentational performance tasks. However, for students at this age group, assessment may be integrated.

Materials/Resources

- World map or globe, preferably in blue and green
- Puppet/mascot
- Plastic duck
- Map of Maryland (ocean, rivers are in blue and lands are in green color)
- Smart Board (optional)
- Blue and green crayons
- o Blue and green sticky notes
- Computers with drawing program
- o Paper

- Pencils
- Slide show: "Little Duck is Hungry"
- Itsy Bitsy Spider songs
 - > English: http://bit.ly/oSAGG4
 - > Spanish: http://bit.ly/r7u0kg
 - > Arabic: http://bit.ly/A2ILir
- o Worksheet 1a
- o Worksheet 2a, 2b, 2c, 2d
- o Worksheet 3a, 3b, 3c
- Worksheet 4a, 4b

STEM Background for teachers: (identified and provided by a STEM teacher/resource person)

Water: Almost 70% of Earth's surface is covered by water.

Water Cycle: The water cycle begins with heat from the sun. Land and water on Earth absorb the heat's energy. Some of that energy warms the air above the surface of the earth. When air gets cooler, water vapor in the air condenses. That means that it changes to tiny droplets of liquid water. As the water droplets increase, they clump together to form a cloud. When the drops become too heavy to stay suspended in the air, they fall to Earth's surface. Water that falls to Earth's surface is called precipitation—known as rain water. Once on Earth's surface, rainwater may enter various bodies of water or the soil, or be used by millions of living organisms. Rainwater can also evaporate and change to gas. This gas is called water vapor. The water vapor, or gas, will then enter the air above Earth's surface. The heat from the sun speeds up the process of evaporation. At this point, the water cycle is completed.

Bodies of Water: Water can be found as ice in polar icecaps and glaciers. Fresh water can be found in streams, lakes, rivers, ponds, swamps, and marshes. Oceans and seas contain salt water. Oceans, seas, and bays cover much of the earth's surface and hold over 97% of Earth's water.

Phases of Water: Below 0°C (32°F) water molecules hold together and form a **solid** block we call **ice.** Heat melts ice and turns it back to **liquid** we call **water**. If more and more heat is added, the liquid will eventually turn to **gas**.

Note to teacher about the overall approach to introducing new vocabulary:

In general we suggest that it is best to avoid the question "What's this?" even if the teacher immediately supplies the answer. For that matter, it is best never to ask a question for which the only possible student answer would be in English. Instead, the teacher creates a context for introducing the vocabulary item, an approach common to Natural Approach and TPRS. For example, "I'm thirsty, and I want some water. Oh look! Here is some water. (Drinking) Good water. I like to drink water." Teacher takes a glass half full of water and hands it to a child: "Here, take the water. Don't spill the water! Give the water to (name of another child)." And so on. This way the learners associate the new vocabulary with an experience. Then the teacher can go on to point to different examples and ask if they are water or not (some should be water, some not). Then it is an easy transition to the globe and the map: ("This is a globe/map. The globe/map gives us a picture of the water and the land on the Earth. Look: the blue on the globe/map is a picture of the water. Look, this isn't blue. Is it water? Right—it isn't water. This is land. We can stand on land. Can we stand on water?" And so on.)

Lesson 1- Where in the World is Water? الدرس الأول: الماء الماء هنا وهناك، في كل مكان

| Lesson 1 of 5 | | Duration: 30 Minutes |
|-------------------------------|--|---------------------------|
| Objectives | I Can: Oral language: Name Earth, land, and water. Tell that there is more water than Literacy: Recognize the words ماء and المراب STEM and Other Subject Areas: Identify water and land on Earth. Show more and less as related to the | أرض). |
| Performance Assessment | Students make a presentation about the on the Earth; (2) there is more water o | |
| Vocabulary and Expressions | Recycled | New |
| | ماذا؟ | هل هذا؟ |
| | | هذا/هذه |
| | ما لون؟ | |
| | أزرق | أين؟ |
| | أخضر صحيح / يمين نعم | هنا |
| | صحيح / يمين | |
| | | الأرض |
| | У | العالم |
| | | خريطة |
| | | أرض/تراب |
| | | ماء أكثر (من) |
| | | اختر (من) أقل (من) |
| Materials/Resources | Plastic balloon globes or maps Visuals of water (Worksheet 1 2 clear plastic glasses of water Blue and green crayons Blue and green sticky notes (e Puppet | a) : one full, one not |

| Key Elements | Lesson 1 Procedures |
|---|---|
| Engagement Object, event or question used to engage students. Connections facilitated between what students know and can do | Introduce الم and النظرة المنافرة المن |
| Exploration Objects and phenomena are explored. Hands-on activities, with guidance. | Re-introduce colors أزرق and أزرق. T: (Holding a blue crayon and asking) به المناه اللون؟ (دميتي، ما هذا اللون؟ (الله أزرق! الله أزرق! الله أزرق! والله أزرق! والله أزرق! والله كنت تلبسين الأزرق: T: (Holding a green crayon and asking students) ما هذا اللون؟ (الله أخضر! الله أخضر! الله أخضر! كنت تلبسين شيئاً أخضر أو إن كنت تلبسين شيئاً أخضر: • Have students hold up different blue/green objects • Have volunteers find something blue/green in the classroom. |

| Key Elements | Lesson 1 Procedures |
|---|---|
| | Make the color connection to ما أرض and أرض أرض الماء على الكرة الأرضية الجغرافية/الخريطة؟ (Referring to a map) أزرق: الزرق: الماء أزرق! الماء أزرق. هناك أزرق كثير في الخريطة/الكرة الأرضية الجغرافية: T: (Pointing to green land) ما هو لون الأرض على الكرة الأرضية الجغرافية/الخريطة؟ (Pointing to green land) أخضر: الخضراء: T: المضرد الأرض خضراء: T: المناد a few individual students to point to water/land on the map. T: (Modeling) هذا ماء/هذه أرض. هوأزرق/هي خضراء (Pointing and saying) خضراء (Pointing and saying) |
| Explanation Students explain their understanding of concepts and processes. New concepts and skills are introduced as conceptual clarity and cohesion are sought. | T: (Pouring water in two clear plastic containers, one with more water and one with less, far apart from each other) الخير المير الله الكأس الذي فيه ماء أكثر؟ أشِر إلى الكأس الذي فيه ماء أكثر؟ أشِر إلى الكأس الذي فيه ماء أكثر؟ (Pointing to the glass with more water.) T: (Switching containers back and forth) أيهما فيه ماء أقل؟ (Pointing to the glass with more water.) T: (Switching containers back and forth) أيهما فيه ماء أقل؟ (Pointing to the glass with less water.) T: (Help students to become familiar with the concept and vocabulary by comparing various quantities of classroom materials.) Students identify water and land on the map with sticky notes. T: (Modeling by putting a sticky note on the map) Aki أزرق/هو ماء. (Modeling by putting a sticky note on the map) T: (Looking at the map and putting the blue sticky note on water) Aki أرض. (Modeling by putting a sticky note on the map) Aki olimic. Aki volunteer students to place additional blue/green sticky notes on water/land on the map. While the student puts the sticky note on the map, he/she also identifies its color and explains what it represents. Repeat this activity until the map is covered. |
| Elaboration • Activities allow students to apply concepts in contexts, and build on or extend understanding and skill. | Discuss الكثر، الأزرق أو as related to water and land T: (Going to the map and asking students to predict) ما هو الأكثر، الأزرق أو الأخضر؟ الأخضر؟ من يقول أن هناك أزرق أكثر من أخضر /أخضر أكثر من أزرق؟ ارفعوا أيديكم. :T المناف الم |

| Key Elements | Lesson 1 Procedures |
|---|---|
| | Transfer and count all the blue and green sticky notes to show that there is more water than land T: (Taking one blue sticky note and placing it on the board - one column for blue/water and the other for green/land). T: (Modeling while transferring the notes): هذا أزرق/هذا ماء تاليا المنابع |
| Evaluation • Students assess their knowledge, skills and abilities. Activities permit evaluation of student development and lesson effectiveness. | Guide students to come to a conclusion that there is more water than land on the Earth T: (Pointing at the board with sticky notes): ﴿ الله على الله الله الله الله الله الله الله ال |

| | Teacher Reflection Lesson 1- Where in the World is Water? | |
|------------------------------|---|--|
| What worked well? | | |
| What did not work well? | | |
| What would I do differently? | | |
| Other comments or notes | | |

Lesson 2 – Where Does Water Go?

الدرس الثاني: أين يذهب الماء؟

| Lesson 2 of 5 | Duration: 30 Minutes |
|----------------------------|--|
| Objectives | الاهم: Oral language: Name the bodies of water: بحر ,خلیج ,نهر ,سیل بخیل , عبد و لایم . Use the word بنهر n short expressions Literacy: Recognize the words بنهر ,سیل , and بحر ,خلیج ,نهر ,سیل , and عبد و . STEM and Other Subject Areas: Identify bodies of water |
| Performance Assessment | Students will demonstrate how water flows from Maryland streams to rivers, the bay, and to the ocean. |
| Vocabulary and Expressions | سيل نهر خليج بحر بحر بحر بحر بحر بط بط بط بط بيسح/يعوم بط ماش عاش عاش ماما مام مام مام مام |
| Materials/Resources | Plastic globe or world map Map of Maryland with ocean, rivers, and bay in blue and land in green. Slide show – "Little Duck Is Hungry" (Worksheet 2a) Toy duck or puppet Photos of Little Duck story (Worksheet 2b, group sets) Vocabulary flash cards (Worksheet 2c) Maryland Waterways pictures (Worksheet 2d) |

| Key Elements | Lesson 2 Procedures |
|------------------------------|---|
| Engagement Object, event or | Introduce map of Maryland T: (Reviewing water/land on globe or map.) هل هذا ماء؟ هل هذه أرض؟ |

| Key Elements | Lesson 2 Procedures |
|--|--|
| question used to engage students. • Connections facilitated between what students know and can do | S: (Answer accordingly) T: (Asking the puppet) أين ماريلند؟ (Puppet answers, pointing to the map of Maryland) الله عنه خريطة ماريلند. أنا أسكن هنا. (Pointing at the map of Maryland) هذه خريطة ماريلند. أنا أسكن هنا. (Putting teacher-made cut out drawings of houses and stick figures of people on the map) هل تسكن/تسكنين في مريلند؟ (Butting teacher-made cut out drawings of houses and stick figures of people on the map) نعم دي الله الله الله الله الله الله الله الل |
| | Introduce flow of water from stream to ocean T: (Pointing to increasingly smaller bodies of water on the map of Maryland) هذا ماء/ هذا بحر/ هذا خليج/ هذا سيل/ هذا نهر |
| | أيهم فيه ماء أكثر، البحر أو الخليج؟ السيل أو النهر؟ by asking أكثر |
| | T: افريطة؟ الزرق الماء/الأرض في الخريطة؟ افر قل المريطة؟ أنوق الخضر (الخليج/النهر/السيل) في الخريطة؟ T: افررق المحرد (الخليج/النهر/السيل) في الخريطة؟ T: (Pointing to the map) هل هذا ماء أو أرض؟ (Students answer accordingly) S: (Students answer accordingly) Repeat this action/sequence a few times. Invite students to come to the map to point to water, and respond, انعم هذا ماء. هذا بحر/خليج/نهر/سيل If they seem ready, invite volunteers to play teacher, point to the map and ask a question or make a statement. |
| Exploration Objects and phenomena are explored. Hands-on activities, with guidance. | Introduce the story, "Little Duck Is Hungry" T: (Puts a hand into a pocket or a magic box.) الماهذا (Pause) (Pulls out a toy duck or puppet) النظر! هذا بطا النظر! هذا بطا البطائي السلطي البطائي الله (Teacher acts very surprised.) الله الله الله الله الله الله الله الل |

| Key Elements | Lesson 2 Procedures |
|---|--|
| Explanation Students explain their understanding of concepts and processes. New concepts and skills are introduced as conceptual clarity and cohesion are sought. | Introduce the story to show students how water flows from stream to ocean T: (Showing picture of stream) Padie و السيل الم النهيل الله الذهر (Pause) Pause) بطبوط يسكن قريب من سيل صغير . كيف يعوم إيسبح من السيل إلى النهر الم السيل إلى النهر المسح إلموم المسح إلموم يدك المسح إلموم يدك المسح |
| Elaboration • Activities allow students to apply concepts in contexts, and build on or extend understanding and skill. | Show how water flows from streams to the ocean T: إني يذهب بطبوط؟ هل يذهب من السيل إلى النهر؟ S: يذهب من السيل إلى النهر ؟ T: (Holding duck or puppet,) أين يذهب بطبوط؟ (Demonstrate using toy duck and map.) T: (Pointing to a student) أريني أين يذهب؟ T: (Giving each student a packet of photos from the Little Duck story (Worksheet 2b), students show Little Duck's trip through the waterways. |
| Evaluation • Students assess their knowledge, skills and abilities. Activities permit evaluation of student | Use the story pictures and show Maryland waterways on the map Students will line up the pictures (Worksheet 2a) according to how the water flows to the Bay (Worksheet 2b). |

| Key Elements | Lesson 2 Procedures |
|---------------------------------------|---------------------|
| development and lesson effectiveness. | |

Suggestions/ ideas:

Explanation: Introduce a story to show students how water flows from stream to ocean

Teacher can put blue construction paper, representing bodies of water, on the floor, and ask students to show Little Duck's trip.

| | Teacher Reflections on Lesson 2 – Where Does Water Go? |
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| What worked well? | |
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| What did not work well? | |
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| What would I do differently? | |
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| | |
| Other comments or notes | |
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Lesson 3 - Is Water Always Water?

الدرس الثالث – هل الماء دائماً ماء؟

| Lesson 3 of 5 | Duration: 30 Minutes |
|----------------------------|--|
| Objectives | المعادية |
| Performance Assessment | Students will describe the phases of the water cycle. |
| Vocabulary and Expressions | No new vocabulary or expression are introduced |
| Vocabulary and Expressions | حفنة ماء/قطرة ماء شمس/مشمس مطر/ممطر/ينزل المطر غيام/سحاب/السحاب يملأ السماء ثلج/هناك ثلج على الأرض/الثلج يسقط سماء هواء/الهواء الأحوال الجوية/الطقس عار دارد حار الأحوال الجوية/الطقس عار داب/يذوب الدورة المائية هذه |
| Materials/ Resources | Worksheet 3a Water Cycle Small plastic spiders Enlarged visual made from Worksheet 3c The Itsy Bitsy Spider song/The water droplet song |

| 0 | English: http://bit.ly/oSAGG4 http://www.youtube.com/watch?v=JYZTOdwE9eg&feature=related |
|---|---|
| 0 | Arabic song: حفنة ماء <u>http://www.youtube.com/watch?v=NhNjDjEhxpk</u> |

| Key Elements | Lesson 3 Procedures |
|---|---|
| Engagement Object, event or question used to engage students. Connections facilitated between what students know and can do | Introduce weather changes T: (Pause, looking out the window) وناك ثلج/مشمس/السحاب يملأ السماء/ممطر أو بارد/حار (أو دافئ) (Depending on the weather on that day and holding up the appropriate pictures.) T: (Engaging students in question) كيف الطقس اليوم؟ (Engaging students in question) هناك ثلج/مشمس/السحاب يملأ السماء/ممطر أو بارد/حار (أو دافئ) T: (Using visuals of weather, Ask and answer the same questions.) S: (Answer according to the visuals) T: (Showing the video about weather without sound, narrate through the first set of pictures in Arabic.) http://www.youtube.com/watch?v=KgHe_I1x9W4 T: (Holding up the visuals, ask either/or questions.) T: (Holding up the visuals, ask either/or questions.) |
| Exploration Objects and phenomena are explored. Hands-on activities, with guidance. | (Sing Arabic song: حفنة ماء کافراد الله علائم الله الله الله الله الله الله الله الل |

| Key Elements | Lesson 3 Procedures |
|---|---|
| | حفنة ماء ذات مساء خات مساء خات مساء طارت خلف طيور الماء طارت خلف طيور الماء قد ودعت البحر وطارت حتى ضاعت في الأجواء حتى ضاعت في الأجواء Teacher asks guiding questions (using TPR gestures). Students gesture or answer. |
| | ماذا يضيع في الأجواء؟ : ٢ هل ودعت حفنة الماء البحر؟ : ٣ من ودعت البحر؟ : ٢ T: Lead the students in singing the song again. T: (Show students the water droplet video if available) http://www.youtube.com/watch?v=NhNjDjEhxpk |
| Explanation • Students explain their understanding of concepts and processes. • New concepts and skills are introduced as conceptual clarity and cohesion are sought. | Reinforce the concept of evaporation Teacher asks follow-up questions (using TPR gestures). Students gesture or answer. T: المطر ماء؟ نعم! المطر ماء؟ المطر ماء (Pause for student response. Maybe والمطر علم (Pause for student response. Maybe ask students to vote.) عمل الثلج ماء أيضاً. (Pause.) التماء النطاع المعادية الماء (Pause.) المعادية الماء (Pause for student response. Maybe ask students to vote.) عمل السحاب ماء أيضاً. (Pause.) أين تطير حفنة الماء/قطرة الماء؟ (Pause for sky.) أين تطير حفنة الماء/قطرة الماء؟ (Pause to see if children can complete the line). T: (Pause.) من أين ينزل المطر؟ Ti السحاب فيها مطر؟ وهل الشمس وراء السحاب؟ Ti السحاب فيها مطر؟ وهل الشمس وراء السحاب؟ Ti |
| Elaboration • Activities allow students to apply concepts in contexts, and build on or extend understanding and skill. | Introduce the concept that water can look different T: (Holding pictures of clouds and sun, depicting heat energy) ﴿ الله الله على الله الله الله الله الله الله الله ال |

| Key Elements | Lesson 3 Procedures |
|---|--|
| | part of the picture that fits the statement. |
| Evaluation • Students assess their knowledge, skills and abilities. Activities permit evaluation of student development and lesson effectiveness. | Students will identify the order of the phases of the water cycle. Students will use pictures to describe the water cycle. Worksheet 3a |

| Teacher Reflections on Lesson 3 – Is Water Always Water? | |
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| What worked well? | |
| What did not work well? | |
| What would I do differently? | |
| Other comments or notes | |

Lesson 4 – Why Does Water Change? الدرس الرابع: لماذا يتغير الماء؟

| Lesson 4 of 5 | Duration: 30 Minutes |
|-------------------------------|---|
| Objectives | الاها: Oral language: Name the 3 states of water. Literacy: Recognize the words: جامد، سائل، مبخر STEM and Other Subject Areas: Name the states of water Tell why water changes |
| Performance Assessment | Students will categorize the different states of water. |
| Vocabulary and Expressions | جامد غاز سائل ثلج بخار جلید هواء |
| Materials/Resources | Real examples of liquids other than water, such as paint, glue, juice, soda, baby oil, shampoo, and cooking oil. Real examples of solid, crayons, wooden blocks, books, etc. A large mirror and several small mirrors Visuals representing three states of water (Worksheet 4a) Classroom set cut up and put in envelopes for each student One enlarged set for teacher to use Chart (Worksheet 4b) |

| Key Elements | Lesson 4 Procedures |
|---|---|
| Engagement Object, event or question used to engage students. Connections facilitated between | Review the Arabic Water drop song and phases of the water cycle. T: (Leads students to sing the song with gestures) T: (الحماء يطير الماء، أين يطير؟ إلى فوق أم إلى تحت؟ هل ينشف الماء؟ عندما يطير الماء، أين يصعد الماء عندما يطير؟ إلى السماء؟ : ٢: (Using TPR gestures) S: السماء! يصعد إلى السماء؟ : ٢: (Using TPR gestures) |

| Key Elements | Lesson 4 Procedures |
|--|---|
| what students know and can do | السحاب S: سحاب T: هل الجو حار أم بارد عندما يسقط الثلج (Using TPR gestures) هو بارد! S: هو بارد! T: عندما تطل الشمس ماذا يحدث للثلج؟ هل يذوب الثلج؟ S: يذوب! |
| Exploration Objects and phenomena are explored. Hands-on activities, with guidance. | Introduce three states of water — المالة (rain or other), المالة (ice/snow), الحداصلات (ice/snow), المالة الله المالة (ice/snow), المالة الله الله الله الله الله الله الله ا |

| Key Elements | Lesson 4 Procedures |
|---|--|
| | S: هو سائل/جامد/غاز |
| Explanation • Students explain their understanding of concepts and processes. • New concepts and skills are introduced as conceptual clarity and cohesion are sought. | Students explain their understanding of the concept of the states of water T: (Pointing to the snowman) إلماذا الماء جامد؟ (pause) هو بارد جداً! هو مثلج. T: (Ask students chorally individually) إلماذا الماء جامد؟ هو بارد جداً. هو مثلج. S: هو بارد جداً. هو مثلج. T: (Pointing to water coming from the faucet) هو سائل أو غاز؟ (هو سائل. S: هو سائل. T: That's right. It's not frozen, and we can see it. |
| Elaboration Activities allow students to apply concepts in contexts, and build on or extend understanding and skill. | T: (Displaying enlarged pictures from Worksheet 4a) לו שלו בו אינו בו אינו בו אינו בו אינו אינו אינו אינו אינו אינו אינו אינ |
| Evaluation • Students assess their knowledge, | Students identify examples of the three states of water Cut up the 12 pictures on Worksheet 4a Instruct students to glue the pictures in the 3 different groups as indicated (solid, liquid, gas) Worksheet 4b |

| Key Elements | Lesson 4 Procedures |
|---|---|
| skills and abilities. Activities permit evaluation of student development and lesson effectiveness. | Students present findings to teacher and class. |

| Teacher Reflections on Lesson 4 – Why Does Water Change? | |
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| What worked well? | |
| What did not work well? | |
| What would I do differently? | |
| Other comments or notes | |

Lesson 5 - Assessment Task

الدرس الخامس- نشاط تقييمي

| Lesson 5 of 5 | Duration: 30 Minutes |
|----------------------------|---|
| Objectives | Students can demonstrate their understanding of the Water, Water, Everywhere Module including: There is more water than land on earth. Bodies of water in Maryland flow from the streams to the bay to the ocean. Water has different states. Water circulates from the land to the sky and back again. |
| Performance Assessment | Students will graphically demonstrate their understanding of water and describe their graphic using limited vocabulary and short phrases. |
| Vocabulary and Expressions | No new vocabulary or expressions |
| Materials/Resources | Globe and/or map of earth Map of Maryland Worksheet 2a Ice cube in zip lock bag – 1 bag per student, labeled with student names 1 transparent glass or plastic container of water Picture of Itsy Bitsy Spider on the water spout Worksheet 5a |

| Key Elements | Lesson 5 Procedures |
|---|--|
| Engagement Object, event or question used to engage students. Connections facilitated between what students know and can do | Conduct overview of previous lesson by engaging students in handson experiment T: (Showing ice cube in zip lock bag): بالله على الله الله الله الله الله الله الله ال |

| Key Elements | Lesson 5 Procedures |
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| | ننتطر لنرى ماذا يصير إلى الثلج. :T |
| Exploration Objects and phenomena are explored. Hands-on activities, with guidance. | T: (Pointing to globe or map). ما هذا؟ (Pointing to globe or map) ما هذا؟ (Pointing to blue/green areas) ها هذا؟ (Pointing to blue/green areas) ها هذا؟ (Pointing to blue/green areas) ها ما هذا؟ (Continue questioning.) T: (Continue questioning.) T: (Continuing) هذا كثير في الأرض لكن شكله ليس دائماً ماء! عندما يكون الطقس (الماء ماذا نسميه عندما يجد؟ عندما يكون الطقس بارد يصير الماء ثلج أو جليد تلا بحداً؟ على حداً؟ حار جداً؟ حلا جداً؟ على الماء عار؟ حار جداً؟ ٢٠ بخار! على الماء عار؟ حار جداً؟ ٢٠ بخار! على الماء عارك ماذا نسمي الماء عندما يكون في هذا الزجاج؟ هل هو جامد سائل أم غاز؟ ٢٠ (Pointing to Maryland map Worksheet 2b) T: (Pointing to Maryland map Worksheet 2b) S: الماء عندما يكون في ماريلند؟ الماء عند الماء في ماريلند؟ (Start with stream and elicit oral responses.) S: بعد الماء في الخريطة؟ تا من السيل إلى النهر إلى الخليج إلى البحر على البحر الماء الماء إلى البحر البحر المنافس بارد جداً جداً ويجمد؟ تا يسير من السيل إلى النهر إلى الخليج إلى البحر الماء الماء الماء عندما يكون الطقس بارد جداً حداً ويجمد؟ تا هناك تلج عندما يكون الطقس حار؟ عندما يكون الطقس حار؟ عندما يكون الطقس حار؟ عندا كالماء غلز يصير الماء غلز يصير الماء غاز يصير الماء غاز : عندا الماء غاز يصير الماء غاز : عندا الماء غاز الماء غاز عاداً عنداً عنداً عنداً عنداً عنور الماء غاز : عنداً عنداً الماء غاز : عنداً عنداً عنور الماء غاز : عنداً عنور الماء غاز : عنداً عنور الماء غاز : تا هنور عنور الماء غاز : تا هنور عنور الماء غاز : تا هنور الماء غاز : تا عنور الماء غاز : تا كنور تا كلات عنور الماء غاز : تا كنور تا كلات عنور الماء غاز : تا كنور تا كلات عنور تا كلات عنور الماء غاز : تا كنور تا كلات عنور تالمكور المكور تا كلات عنور تا كلات عنور تا كلات عنور تا كلات عنور |
| Explanation Students explain their understanding of concepts and processes. New concepts and skills are introduced as conceptual clarity and cohesion are sought. | Students explain different states of water إذاً هل الماء دائماً في نفس الشكل؟ : إذاً هل الماء دائماً في نفس الشكل؟ : إذاً هل الماء دائماً في نفس الشكل؟ : (Holds up pictures of different forms of water, Worksheet 4a) إذاً عاد : جامد، سائل، غاز : ممتاز ! |
| Elaboration • Activities allow students | Students demonstrate their understanding of the water cycle |

| Key Elements | Lesson 5 Procedures |
|---|---|
| to apply concepts in contexts, and build on or extend understanding and skill. | T: (Pointing to picture of the water drop) ما هذه؟ حفنة ماء/قطرة ماء عندما طارت حفنة الماء، كيف كان شكلها عندما نزلت من السماء؟ :T: مطر! :S: مبيد! كيف كان شكلها عندما طارت إلى السماء؟ :T: كيف كان شكلها عندما طارت إلى السماء؟ :S: كانت بخار/غاز! :S: وما هو المطر؟ هل هو جامد؟ أم سائل؟ أم غاز؟ :T: هو سائل : ممتاز! :T: ممتاز! :T |
| Evaluation • Students assess their knowledge, skills and abilities. Activities permit evaluation of student development and lesson effectiveness. | Students will match images of states of water to thermometers depicting different temperatures T: إلان يا أحباتيلنرى ماذا يصير للثلج! من منكم يظن أن الماء سيبقى ثلج؟ وإلان يا أحسان الثلج: (Continue questioning with water). T: غد من منا يظن أن الماء سيبقى ثلج؟ هيا نحضر الثلج: (Teacher re-counts the numbers in the tally). Each student retrieves his own pre-labeled zip lock bag. T: إلا الثلج هل ذاب؟ هل ذاب؟ عماذا بنا الثلج في الكيس؟ ألا ينعم، ذاب عمم، ذاب عمر، ذاب عمر، ذاب عمر، ذاب عمر، ذاب عمر، ذاب الكيس؟ الكيس؟ الكيس؟ تعم، ذاب عمر، الكيس؟ التألج عبيذوب ويصير سائل؟ T: إلى المناح سيذوب ويصير سائل؟ (Count with students). (Continue with numbers of those who guessed steam/gas). S: (Repeating numbers with teacher) T: الفريق الصحيح من الأصدقاء الذين قالوا أن الماء سيبقى الماء سيبقى المحيى الكر؟ الثلج صارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج صارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج صارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج مارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج مارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج مارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج مارماء لانه كان حار T: الفريق الصحيح! كثر! الثلج مارماء لانه كان حار T: لانه كان حار T: لا تحول إلى غاز . هل نستطيع أن نراه؟ لا لأنه غاز . ها نستطيع أن فرا المناء كلي ما مدار جامد؟ لا تحول إلى غاز . هل نستطيع أن فرا الأله كلاكة كلاكة . كان حار تالكة كلاكة . ها نستطيع أن نراه؟ لا لأنه غاز . ها نستطيع أن فرا لا لأنه كان حار تالكة كلاكة . كان حار تالكة كلاكة . ها نستطيع أن فرا لا لأنه كان حار كالكنه كلاكة . كان حار كالكنه كلاكة . كان حار كالكنه كلا حار كالكنه كلاكة . كان حار كالكنه كلاكة . كانه كلا |

| | Teacher Reflections on Lesson 5 – Assessment Task |
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| What worked well? | |
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| What did not work well? | |
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| What would I do differently? | |
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| Other comments or notes | |
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