**CheMystery**

The Environment

Thursday | August 11, 2016

Unit: The Earth

Lesson: The Sun

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| **Standard(s)** North Carolina Essential Standards Science Education—Grades 3-5 | 1. 5.E.1: Understand weather patterns and phenomena, making connections to the weather in a particular place and time.
2. 5.P.2: Understand the interactions of matter and energy and the changes that occur.
3. 3.E.1: Recognize the major components and patterns observed in the earth/moon/sun system.
4. 5.L.1: Understand how structures and systems of organisms (to include the human body) perform functions necessary for life.
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| **Objective(s)** | 1. Inform students the purpose of Earth’s relationship with the Sun.
2. Inform students about the importance of Sun safety.
3. Explain the impact of skin cancer on adults and children.
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| **Materials** | **How the Sun Heats the Earth**<https://www.youtube.com/watch?v=dg_DOM1OQoo>**Despicable Me Sun Safety Campaign**<https://www.youtube.com/watch?v=7UWvqNeqX6E>**The Web of Life Activity**<http://forces.si.edu/ltop/pdfs/PreK-1-WebofLife.pdf> |
| **Instructional Strategy** | 1. Explain the concept of Sun’s interaction with the Earth and the UI Extension video.
2. Utilize Web of Life activity to explain how the Sun encourages growth and even destruction of life on Earth (and human interaction facilitates destruction or growth as well).
3. Dangers of Sun Worksheet walkthrough with Despicable Me video.
4. Dangers of Sun Quiz and discussion.
5. UV Beads Activity (if time permits).
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| **Assessments** | 1. Instructor-led discussion of understanding.
2. Student interaction and quiz.
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| **Reflection** | * Teaching kids about the Sun is enforces their knowledge about the atmosphere lesson and the future lessons to follow.
* Encouraging students to learn about sun safety is integral to family and community health.
* Children are at just as much risk for skin damage as their parents, therefore this lesson should be a great takeaway lesson for their family!
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