**CheMystery**

The Environment

Thursday | August 11, 2016

Unit: The Earth

Lesson: Water

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| **Standard(s)** North Carolina Essential Standards Science Education—Grades 3-5 | 1. 5.L.2: Understand the interdependence of plants and animals with their ecosystem.
2. 5.L.3: Understand why organisms differ from or are similar to their parents based on the characteristics of the organism.
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| **Objective(s)** | 1. Inform students about the importance of water safety at the beach and swimming locations.
2. Explain the purpose of lead and why families should avoid it.
3. Explain the impact of pollution on water and how children can stop it.
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| **Materials** | **Vox: Flint’s Water Crises** <https://www.youtube.com/watch?v=NUSiLOwkrIw>**Despicable Me Water Safety Campaign**<https://www.youtube.com/watch?v=iNO18rEMR1o>**Beach Flags**<http://www.cityofnewport.com/departments/easton-s-beach/lifeguards-safety-flags>**Plastic Pollution**<https://www.youtube.com/watch?v=SibNliQWSEs>**American Cancer Society: Lead**<http://www.cancer.org/cancer/cancercauses/othercarcinogens/athome/lead> |
| **Instructional Strategy** | 1. Utilize YouTube videos with discussion about water safety and visuals about the beach (open forum).
2. Then explain how humans pollute the beach through our use of plastics and with internet video.
3. Explain purpose of lead and how it affects children, then utilize online video and have in-class discussion.
4. In-class activity.
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| **Assessments** | 1. Instructor-led discussion of understanding.
2. Student interaction.
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| **Reflection** | * It is important to teach kids about water safety as “every day, about ten people die from unintentional drowning. Of these, two are children aged 14 or younger. Drowning ranks fifth among the leading causes of unintentional injury death in the United States”.
* Although Flint, Michigan is the latest story in the lead crisis, it is not a new thing. Lead exists in toys manufactured in overseas warehouses, it still exists in the homes of low socioeconomic achievers here in the US, and it’s still in soil.
* Teach kids to respect local natural resources.
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