**CheMystery**

The Environment

Thursday | August 11, 2016

Unit: The Earth

Lesson: Air

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| **Standard(s)** North Carolina Essential Standards Science Education—Grades 3-5 | 1. 4.L.1: Understand the effects of environmental changes, adaptations and behaviors that enable animals (including humans) to survive in changing habitats. 2. 5.E.1: Understand weather patterns and phenomena, making connections to the weather in a particular place and time. 3. 5.L.2: Understand the interdependence of plants and animals with their ecosystem. |
| **Objective(s)** | 1. Inform students about the importance of clean air and the dangers of pollution. 2. Explain how smoking can affect the lungs through secondhand exposure. 3. Explain the people can affect air pollution through public policy change. |
| **Materials** | **Shanghai People Square**  <https://www.flickr.com/photos/morgennebel/8680795156>  **Airpocalypse Now**  <https://www.theguardian.com/world/2015/nov/09/airpocalypse-now-china-pollution-reaching-record-levels>  **Secondhand Rose**  <https://www.youtube.com/watch?v=9dfhQvCaCnM>  **Secondhand Smoke (The Doctors)**  <https://www.youtube.com/watch?v=Qgdplba1hsM>  **China Smog**  <https://www.youtube.com/watch?v=S27ycsxUtRM> |
| **Instructional Strategy** | 1. Utilize YouTube videos with discussion about air pollution and visuals from China. 2. Utilize <http://www.clean-air-kids.org.uk/> to explain the importance of local impact on the environment and how people can affect change for the better. 3. Explain dangers of smoking and how even second hand smoking can affect the lungs. 4. In-class activity. |
| **Assessments** | 1. Instructor-led discussion of understanding. 2. Student interaction. |
| **Reflection** | * Riddle: “What turns day into night, smells like smoke, and travels along the wind like a ghost?” |