Laarman Lesson Plan

Class: Earth Science Unit: Earth’s Resources Standards: ESS2-2, ESS3-6

Topic: Energy Mix Date: 4/8/24

|  |  |
| --- | --- |
| **Procedure**  | 1. Put desks in a circle
2. Class discusses and negotiates until they arrive at a consensus for a class electricity mix
 |

Topic: The Nitrogen Cycle Date: 4/9/24

|  |  |
| --- | --- |
| **Materials, Prep** | Nitrogen Cycle Game Materials |
| **Procedure**  | Perform the Nitrogen Cycle game from <http://www.windows2universe.org/teacher_resources/teach_nitrogen.html>  |

Topic: Earth’s Systems Date: 4/10/24 - 4/11/24

|  |  |
| --- | --- |
| **Procedure**  | 1. Present the Earth’s Systems PowerPoint
2. Students have the period to prepare their system interaction presentations (see rubric below)
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**Earth Science**

**The Connections of Earth’s Systems**

**Presentation Rubric**

**Requirements**

1. Tell the story of an example of a change in one of Earth’s spheres causing changes in another sphere, in turn causing changes in a 3rd sphere or the original sphere.
2. Use PowerPoint or a similar program to present.
3. Summary points must be in your own words.
4. No reading! Talk to us!
5. 3-7 minutes in length

**Grading**

**Time**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| 3-7 minutes | Up to 30 seconds off | :30-1:00 off | 1:00-1:30 off | More than 1:30 off |
| 5 | 4 | 3 | 2 | 1 |

**Presentation**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| None read; all from memory |  | Partially read; partially from memory |  | All read |
| 5 | 4 | 3 | 2 | 1 |

**Content**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Very thoroughly explains the changes in the spheres, the causes of those changes, and the connection between them |  | Thorough overall; some relatively minor questions are left unanswered |  | Students are left with significant questions; some important points not explained |  | Major questions left unanswered; only a brief overview was given and few or inadequate explanations were offered |  |  |  |
| 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 |

**Total: \_\_\_\_\_\_\_\_\_\_**

Videos for extra time:

<https://www.youtube.com/watch?v=9eFiZbB9aJQ>

<https://www.pbs.org/video/earth-new-wild-earth-new-wild-water/> (start at 22:50)

<https://www.pbs.org/video/earth-new-wild-earth-new-wild-forests/> (start at 33:40)

4/12/24: Fact Check Friday