Temperature Differentiation Lesson

Name: Frances Rickard

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Grade Level/Subject: 4th

Prerequisite Knowledge:

-Students will already know about seasons and the Earths movement around the sun

-Students will have some knowledge that the sun is an energy source

Approximate Time: 60 minutes

Student Objectives/Student Outcomes:

-Students will be able to explain how the sun creates temperature

-Students will be able to read thermometers

Content Standards:

**12.E.2a** Identify and explain natural cycles of the Earth’s land, water and atmospheric systems (e.g., rock cycle, water cycle, weather patterns).

Materials/Resources/Technology:

-Flip video for groups

-PowerPoint presentation on Temperature

-Temperature Worksheets

Implementation:

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|  | Opening:  The opening of the lesson will be our PowerPoint. Since this is the first lesson in the Unit, we don’t need to have any opening discussions other than briefly explaining what is to be done during the course of the lesson.  The PowerPoint will include information on what Temperature is, how the sun heats the earth, and brief information on the earth’s tilt, rotation around the sun, and seasons. Also on the PowerPoint will be how we measure Temperature, because students will be doing a worksheet that involves looking at thermometers and translating them.  I will also explain to the students that starting this lesson, they will be keeping records of the temperature daily, and that this information is to be kept in their Weather logs |
|  | Procedure:  After the PowerPoint is finished, the worksheet that students are to be completing will be passed out. There will be several versions of the worksheet so that students that need further accommodations can still complete the assignment and gain all of the necessary knowledge. Students can work with their groups but every student must have a worksheet completed. When the worksheet is finished, it will be placed in their logs. Flips videos will also be passed out to the groups so that students can begin taking video for their final video project. |
|  | Summary:  At the end of the lesson we will review what we learned in the PowerPoint presentation and we will go over again how to read a thermometer. We will also take this time to set up a class thermometer outside that will be checked every day for the rest of the unit at Recess time. |
|  | Assessment:  The assessment for this lesson will be the completion of the worksheet. |