

Earth and Space Science

Sept. 24, 2019

Day 3/19



At the end of today's lesson you will:

- How can we search for evidence that other planets were once habitable?
- What geologic process could have formed the channel on Mars?

Classwork-

- Finish Geology on Mars 3.2, and begin Geology on Mars 3.3.
- Students receive their final piece of information about the channel on Mars: An image of rock found in the channel area. Early in its visit to Mars, the Curiosity rover sent back images of a rock formation composed of sedimentary rock, called conglomerate, near the channel in Gale Crater. Students evaluate one of these images with the assistance of rock samples and reference materials. They then work in pairs to connect this evidence to the two claims about the channel on Mars using the Evidence Gradient.
- In the second part of class, students review the evidence to construct final arguments about what formed the channel on Mars. In preparation for writing their arguments, students discuss an example of a strong argument and a counterexample. While discussing, they focus on how each argument's author used the process of reasoning to develop an argument. Students are then introduced to the Reasoning Tool, which they use to develop their own well-constructed arguments. Teacher modeling helps students to reason about evidence and make sure the evidence is clearly connected to a claim. Partners work with the Reasoning Tool and then share their thinking with different partners. Students learn that reasoning is an integral part of creating sound, logical, and convincing arguments in science.

Homework-

- Complete section 3.2, and 3.3.
- END OF UNIT ASSESSMENT THURSDAY.