



Mercury Geology

Observing Features on Mercury

Classroom Activity

Overview

Age Range:

12-16

Prep. Time:

5 minutes

Lesson Time:

30 minutes

Cost per activity:

Low (printing costs)

Includes the use of:

Printouts and a pen/pencil

Outline

Students will use a reference image of the surface of Mars to answer a series of questions related to geology, specifically the effects of cratering.

A peer review process can be used to mark the work.

Pupils will Learn:

- The formation and aging of craters
- Using visual sources to make scientific assessment

Lesson Plan:

Overview of the time required to complete lesson.

Description	Time	Notes
Introduction to the subject	5 min	Overview of Mercury and impact craters
Activity 1	15 min	Use: 'StudentGuide_MercuryGeology.pdf'

Online Observatory: onlineobservatory.eu

The online observatory collaboration consists of the following partners:

Baldone Observatory, Brorfelde Observatory, Cardiff University, Harestua Solar Observatory, Helsinki Observatory



Assessment	10 min	Peer assessment, use: 'ModelAnswers_MercuryGeology.pdf'
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Introduction to the subject:

Provide an overview of Mercury as a planet, being the closest to the Sun. You may also wish to cover how meteor impacts create craters.

Activity 1:

- Provide a student guide to each student, this will serve as their activity worksheet. You may also wish to project the image on a large screen/board.

Begin the activity by telling students they have approximately 15 minutes to work through the questions.

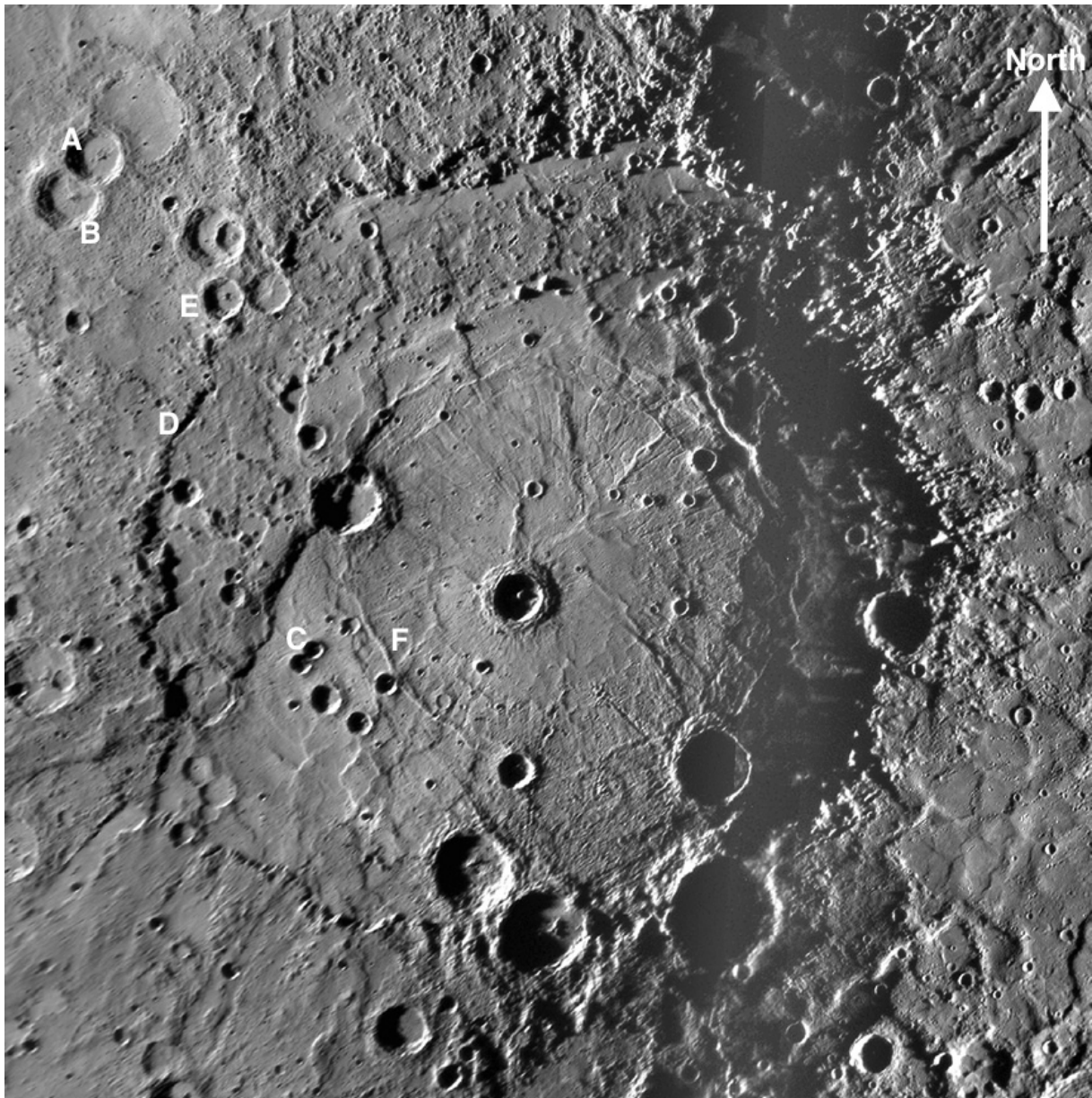
1. Students will assess the image and then answer the questions provided.

Assessment:

Students will peer mark each other's worksheets based on the model answers provided in the document 'ModelAnswers_MercuryGeology'.



Background Resources:



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