

# From Space to Earth: Meteor Crater

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## Teacher Lesson 5: Final Reflection and Assessment on Impact Craters

**Final activity to process the big lessons from this unit on impact craters. (50 minutes)**

- Assign individuals or groups one or all final reflective questions.
- Assign criteria for answers: how many facts, specific examples for each answer? Sources cited?
- Give assessment guidelines (presentation, essay, final test given by you, group discussion, posters, plays, demonstrations, etc.)

### **ASSESSMENT CRITERIA**

Did students show evidence of learning about impact craters?

Did students show evidence of learning about the scientific process?

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## Student Handout: Final Reflection and Assessment on Impact Craters

### What do you know now about impact craters?

1. How is an impact crater's appearance different from a volcanic crater? (lesson 1)
2. Where are impact craters located on Earth? (lesson 2) What is the biggest known crater and where is it? How old is the oldest known crater?
3. How do different variables affect the shape of the hole and the resulting destruction caused by a meteorite impact? Are some variables more significant than others? (Lesson 3)
4. What is the greatest challenge to designing scientific experiments? (Lesson 3)
5. Why did it take so long for the scientific community to accept impact crater origin theories? (lesson 4)
6. What have you learned about the scientific process from your own experiments and from learning about the scientific controversy over Barringer Meteorite Crater in Arizona? (lessons 1-4)
7. What questions do you now have about impact craters? List at least 3. Where would you go to get answers to these questions? (Lessons 1-4)