

# FAIRBANKS MUSEUM & *planetarium*

## Introduction to Astronomy

*Meteors & Asteroids*

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*The following instructions represent additional resources for continued study of the topics covered in our "Introduction to Astronomy" online class. All materials are the property of Planetarium Educator Hannah Buckner who created them. Any websites included are the property of the individual website owners and have been reviewed by a Fairbanks Museum & Planetarium educator.*

### Overview & Purpose

Students will be able to describe the difference between meteoroids, meteors, and meteorites.

### Objectives

1. To be able to describe what meteoroids and asteroids are and what they are made of.
2. Demonstrate understanding of the process of making a meteorite

### Highlights of this Lesson

1. Meteoroids and Asteroids can range from very small to very big
2. Meteoroids and Asteroids can have various compositions which can tell us more about the origins of our solar system and its formation
3. Meteorites are meteors that have touched the ground

### Lesson Vocabulary

1. Meteoroid
2. Meteor

3. Meteorite
4. Asteroid
5. Composition
6. Meteor Shower

## Materials

1. <https://solarsystem.nasa.gov/asteroids-comets-and-meteors/overview/>
2. Paper
3. Pens and/or pencils
4. Colors pencils or crayons (optional)
5. Paint (optional)

## Homework

*This after-class assignment is useful in building and reinforcing the information that students have learned in class.*

Part One:

Please define each of the vocabulary and use them in a sentence. Feel free to illustrate your descriptions too.

Part Two:

Draw or describe the process of a meteoroid becoming a meteorite. Include all parts discussed about in class.

Part Three:

Look up other types of asteroids that have been named and see what scientists have been doing to learn more about them and what they are made of. Do you think this is important? Why or why not?

## Have Any Questions?

If you have any questions, concerns, or comments please feel free to reach AmeriCorps Educator Hannah Buckner at [hbuckner@fairbanksmuseum.org](mailto:hbuckner@fairbanksmuseum.org).

