


Meteoroids: Space Rocks

HOW DO THEY FORM?

READING COMPREHENSION



ENTERING EARTH'S ATMOSPHERE
Eventually, some meteoroids get pulled towards Earth's gravity. As they enter Earth's atmosphere, they heat up because of friction with the air. Some burn up and become shooting stars, while others survive and land on Earth's surface as meteorites.



HOW DO METEOROIDS FORM?

WHAT ARE METEOROIDS?
Have you ever wondered where shooting stars come from? These magical streaks of light are caused by objects called meteoroids. But how do meteoroids come to be? Let's find out!

TINY PIECES OF ROCK
Meteoroids start their journey as tiny pieces of rock floating in space. These rocks can be as small as a grain of sand or as big as a boulder. They come from many places in space, like asteroids or even other planets!

SHEDDING APART
Sometimes, larger objects in space like asteroids or planets collide with each other. When this happens, they can break into smaller pieces. These pieces are called meteoroids. It's like when you drop a plate on the ground and it shatters into smaller bits.

DEBRIS
Another way meteoroids form is from leftover debris from the formation of planets. When planets and asteroids were forming billions of years ago, there was a lot of leftover dust and rock. Some of this debris eventually formed meteoroids.

TRAVELING THROUGH SPACE
Once formed, meteoroids travel through space at incredible speeds. They can sometimes get pulled towards other objects, like planets, or even bump into other objects, like a roller coaster ride.

QUESTIONS
Choose the correct answer.
Streaks of light caused by shooting stars are called meteoroids.
Meteoroids start their journey as tiny pieces of rock floating in space.
Some meteoroids are as big as planets.
When larger objects in space collide, they can break apart into smaller pieces called meteoroids.
Meteoroids form from leftover debris from the formation of planets.

NO-PREP & EDITABLE

**READING COMPREHENSION
MCQ'S
QUESTIONS
ANSWER KEY**

READING PASSAGES WITH TEXT DEPENDENT QUESTIONS

HOW DO METEOROIDS FORM?

WHAT ARE METEOROIDS?

Have you ever wondered where shooting stars come from? These magical streaks of light are caused by objects called meteoroids. But how do meteoroids come to be? Let's find out!



TINY PIECES OF ROCK

Meteoroids start their journey as tiny pieces of rock floating in space. These rocks can be as small as a grain of sand or as big as a boulder. They come from many places in space, like asteroids or even other planets!

BREAKING APART

Sometimes, larger objects in space like asteroids or planets collide with each other. When this happens, they can break into smaller pieces. These pieces become meteoroids. It's like when you drop a plate on the ground and it shatters into smaller bits.

LEFTOVER DEBRIS

Another way meteoroids form is from leftover debris from the formation of planets and asteroids. When planets and asteroids were forming billions of years ago, there was a lot of leftover dust and rock. Some of this debris clumped together to form meteoroids.



TRAVELING THROUGH SPACE

Once formed, meteoroids travel through space at incredible speeds. They zoom around our solar system, sometimes getting pulled in by a planet's gravity or bumping into other objects. It's like they're on a cosmic rollercoaster ride.

Ready to Print &
Editable



ENTERING EARTH'S ATMOSPHERE

Eventually, some meteoroids get pulled towards Earth by gravity. As they enter Earth's atmosphere, they start to heat up because of the friction with the air. This heating causes them to glow brightly, creating the streaks of light we see as shooting stars.



BURNED UP OR SURVIVED

Most meteoroids burn up completely as they race through the Earth's atmosphere. They get so hot that they turn into vapor and disappear before they even reach the ground. But some larger and stronger meteoroids manage to survive the journey and land on Earth's surface as meteorites.

STUDYING METEOROIDS

Scientists love studying meteoroids because they can tell us a lot about our solar system's history. By examining meteorites that have landed on Earth, scientists can learn about the materials that make up planets and asteroids. It's like piecing together a giant space puzzle!

CONCLUSION

So, now you know how meteoroids form! Whether they're created from collisions in space or leftover debris from the birth of planets, these tiny pieces of rock have a fascinating journey through our solar system before creating the magical spectacle of shooting stars in our night sky.

READING COMPREHENSION

COLORED & B/W
VERSIONS INCLUDED

SHORT ANSWER QUESTIONS

1. What are shooting stars caused by?
2. How do meteoroids start their journey?
3. What happens when larger objects collide?
4. How do meteoroids glow as they enter Earth's atmosphere?
5. What do scientists learn from studying meteorites?

ANSWER KEY

MCQS

1. b) Shooting stars
2. b) As small rocks floating in space
3. c) They break into smaller pieces
4. c) They clump together during the formation of planets and asteroids
5. a) Friction with the air
6. d) They burn up completely and turn into vapor
7. c) The materials that make up planets and asteroids
8. c) At incredible speeds
9. c) Like a cosmic rollercoaster ride
10. c) To learn about the history of our solar system

SHORT-ANSWER QUESTIONS

1. Shooting stars are caused by objects called meteoroids.
2. Meteoroids start their journey as small rocks floating in space.
3. When larger objects in space collide, they break into smaller pieces that become meteoroids.
4. Meteoroids glow as they enter Earth's atmosphere due to friction with the air.
5. Scientists learn about the materials that make up planets and asteroids from studying meteorites.

6. What happens to most meteoroids Earth's atmosphere?

- a) They turn into shooting stars
- b) They disappear into space
- c) They land on Earth's surface as meteorites
- d) They burn up completely and turn into dust

7. What do scientists learn by studying meteorites?

- a) The history of the Moon
- b) The formation of black holes
- c) The materials that make up planets and asteroids
- d) The behavior of distant stars

8. How do meteoroids travel through space?

- a) Slowly and steadily
- b) In a straight line
- c) At incredible speeds
- d) By following the planets' orbits

9. What analogy is used to describe meteoroids traveling through space?

- a) Like a rocket launch
- b) Like a car ride
- c) Like a cosmic rollercoaster ride
- d) Like a stroll in the park

10. What is the primary purpose of studying meteorites?

- a) To predict earthquakes
- b) To understand the behavior of comets
- c) To learn about the history of our solar system
- d) To explore the outer reaches of the universe

Name _____

Date _____

HOW DO METEOROIDS FORM?

DIRECTIONS: CHOOSE THE CORRECT ANSWER.

1. What are the streaks of light caused by meteoroids called?

- a) Stars
- b) Shooting stars
- c) Asteroids
- d) Comets

2. How do meteoroids start their journey?

- a) As pieces of ice
- b) As small rocks floating in space
- c) As fragments of planets
- d) As grains of sand on Earth

3. What happens when larger objects in space collide?

- a) They disappear
- b) They form asteroids
- c) They break into smaller pieces
- d) They become shooting stars

4. How do some meteoroids form from leftover debris?

- a) They are created by the Sun
- b) They are formed from volcanic eruptions
- c) They clump together during the formation of planets and asteroids
- d) They come from distant galaxies

5. What causes meteoroids to glow brightly as they enter Earth's atmosphere?

- a) Friction with the air
- b) Collision with other meteoroids
- c) Interaction with Earth's magnetic field
- d) Exposure to sunlight

ANSWER KEY
INCLUDED

10 - MCQ'S & 5
QUESTIONS

READY TO PRINT

NO-PREP !

JUST PRINT AND GO!



EASY EDITING

EDITABLE

***FONTS ARE EMBEDDED FOR CONVENIENCE**

