

**Space Rocks! Rules**

The rules for their play depends on which zone their piece is in.

Leaving the Parent Body Roll an even number and answer a question correctly to move to the Meteoroid Zone.

The Meteoroid Zone: Roll a 5 or a 6, and answer a question correctly to move to the Meteor Zone.

The Meteor Zone: Roll an odd number, and answer a question correctly to move to the Meteorite Zone,

The Meteorite Zone: Roll a 1 and answer a question correctly to land in Antarctica and win.

Which is hit the most by the smallest particles from asteroids and comets?

- A. Earth
- B. The Moon
- C. Mars

Which does an asteroid hit the fastest?

- A. Earth
- B. The Moon
- C. Mars

**Answer: B**

**Answer: A**

Where did an impact cause a mass extinction?

- A. Earth
- B. The Moon
- C. Mars

How long have asteroids been hitting the planets?

- A. 10 thousands years
- B. 5 million years
- C. 4.5 billion years

Which hits the Earth most frequently?

- A. Comets
- B. Asteroids
- C. Both hit the Earth at the same rate.

**Answer: A**

**Answer: C**

**Answer: B**

We have not found meteorites on Earth from

- A. The Moon
- B. Mars
- C. Venus

Which does not have meteors?

- A. The Moon
- B. Mars
- C. Earth

On Earth, where do meteorites fall?

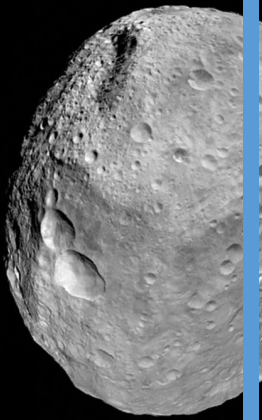
- A. North America
- B. Antarctica
- C. Everywhere

**Answer: C**

**Answer: A**

**Answer: C**

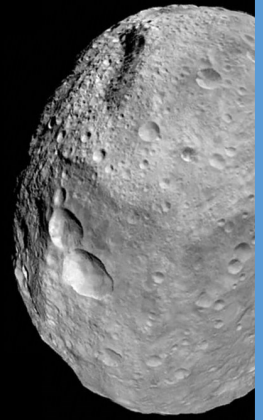
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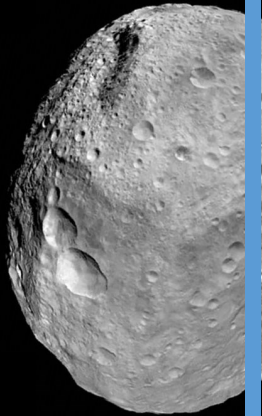
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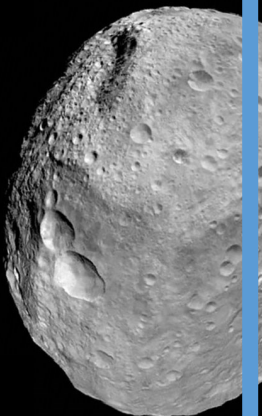
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On Earth, when do meteorites fall?

- A. At night
- B. During the day
- C. All the time

**Answer: C**

What is a meteor?

- A. A rock from space
- B. A streak of light in the sky
- C. A star that explodes

**Answer: B**

What is a meteorite?

- A. A rock from space that has landed on Earth
- B. Any rock on another planet
- C. A small asteroid

**Answer: A**

What is a shooting star?

- A. A star that explodes
- B. Another name for a meteor
- C. A piece of a star

**Answer: B**

What is a meteoroid?

- A. A rock that has landed on Earth
- B. Another name of a meteor
- C. A particle or rock in space

**Answer: C**

Why does a meteor glow?

- A. Meteoroids glow white-hot in our atmosphere
- B. Meteoroids ignite our atmosphere
- C. The air around the meteoroid is ionized

**Answer: C**

How fast does a meteoroid move in our atmosphere?

- A. Around 50 thousand miles per hour
- B. About 30 miles per hour
- C. Approximately 100 miles per hour

**Answer: A**

What is an asteroid?

- A. A space rock less than a thousand km wide
- B. A type of star
- C. A rock that has landed on Earth

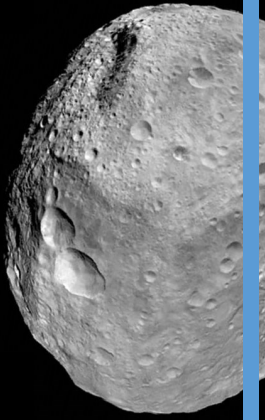
**Answer: A**

Which of these is not an asteroid?

- A. Ceres
- B. Mars
- C. Vesta

**Answer: B**

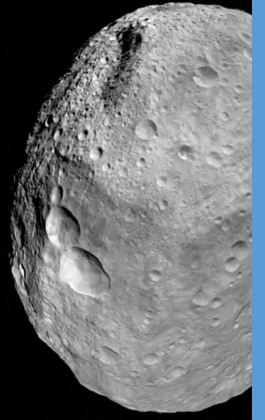
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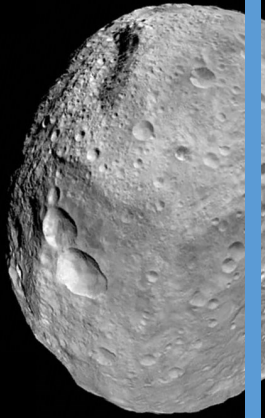
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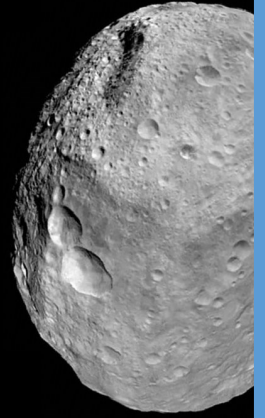
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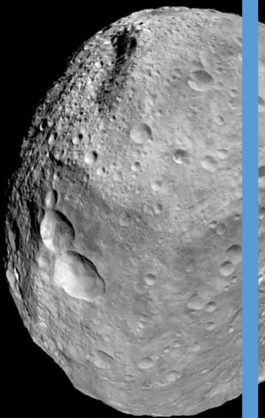
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Do large or small asteroids hit the Earth more frequently?

- A. Large asteroids strike more frequently.
- B. Small asteroids strike more frequently.
- C. All asteroids hit the Earth at the same rate.

**Answer: B**

What causes meteor showers?

- A. Earth passes through a trail of comet dust
- B. Asteroids explode above our atmosphere
- C. Rain forms due to an asteroid impact

**Answer: A**

What are the different types of meteorites?

- A. Fast and slow
- B. Icy, rocky, and iron
- C. Stony, iron, and stony-iron

**Answer: C**

What do most meteorites look like?

- A. Silver and round
- B. Dark crust and irregular-shaped
- C. Black and shiny

**Answer: B**

Which is a meteor shower?

- A. The Perseids
- B. The Katydids
- C. The Lemonids

**Answer: A**

What makes an impact crater on the surface of a planet or moon?

- A. A comet or asteroid exploding on the surface
- B. A meteorite melting the surface
- C. An asteroid bouncing off the surface

**Answer: A**

What are the types of asteroids?

- A. Round, Oblate, and Irregular
- B. Carbon-rich, Stony, and Metallic
- C. Icy, Sandy, and Rocky

**Answer: B**

Asteroids cannot have \_\_\_\_\_.

- A. Craters
- B. Hurricanes
- C. Ice

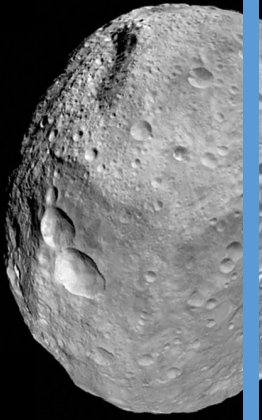
**Answer: B**

Where do most meteorites come from?

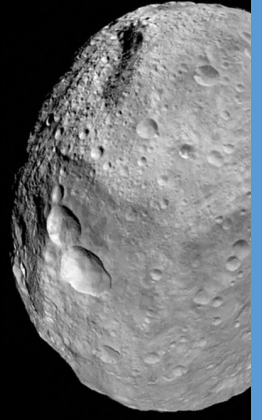
- A. The Moon
- B. Asteroids
- C. Andromeda

**Answer: B**

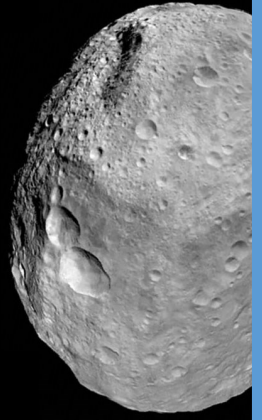
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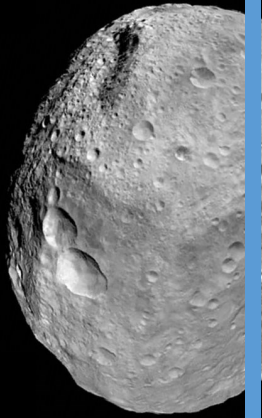
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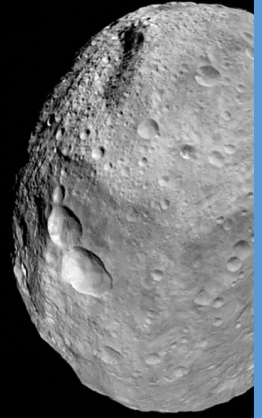
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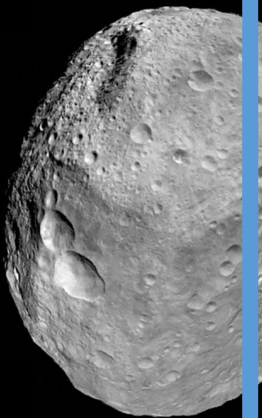
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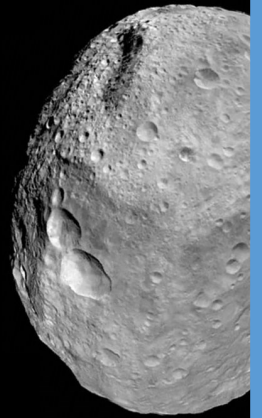
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What is another name for a lunar meteorite?

- A. Brie
- B. Moonite
- C. Lunaite

**Answer: C**

How fast does a rock need to go to escape from the Moon's gravity?

- A. about 1.5 miles per second
- B. about 15 miles per second
- C. about 150 miles per second

**Answer: A**

How many meteorites have we found from the Moon?

- A. about 4
- B. about 400
- C. about 40,000

**Answer: B**

Where on the Moon do lunar meteorites come from?

- A. the Maria
- B. the Highlands
- C. all over the Moon

**Answer: C**

How many lunar meteorites were seen falling as a meteor?

- A. 0
- B. 10
- C. 15

**Answer: A**

A lunar meteorite has never been found on which continent?

- A. Antarctica
- B. Africa
- C. North America

**Answer: C**

In what year was the first identified lunar meteorite found?

- A. 1701
- B. 1981
- C. 2019

**Answer: B**

How fast does a rock need to go to escape from the gravity of Mars?

- A. 3 miles per second
- B. 30 miles per second
- C. 300 miles per second

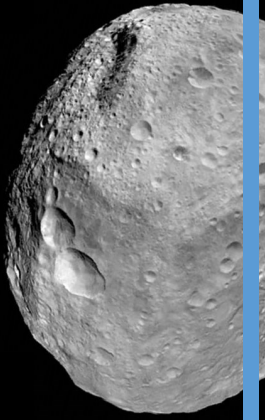
**Answer: A**

How many meteorites have we found from Mars?

- A. 12
- B. 224
- C. 4,048

**Answer: B**

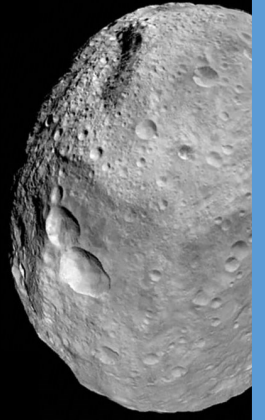
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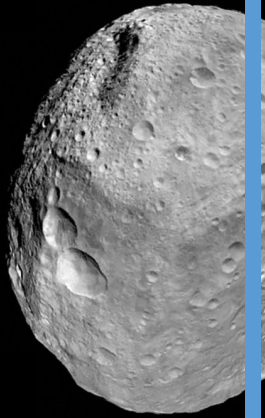
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Which type of Mars meteorite was found in Shergotty, India?

- A. A Nakhllite
- B. A Chassignite
- C. A Shergottite

Answer: C

Which asteroid is the OSIRIS REx mission orbiting?

- A. Vesta
- B. Ceres
- C. Bennu

Answer: C

Which of these asteroids has been identified as the source for many meteorites?

- A. Vesta
- B. Ceres
- C. Bennu

Answer: A

About how old are the oldest Mars meteorites?

- A. Under 4 thousand years old
- B. About 4 million years old
- C. Over 4 billion years old

Answer: C

Mars meteorites with "NWA" in their names were found in \_\_\_\_\_ .

- A. Northwest Africa
- B. Northwest America
- C. Northwest Antarctica

Answer: A

After leaving Mars, how long did meteorite Dhofar 019 spend in space?

- A. 3 years
- B. 20 million years
- C. 4 billion years

Answer: B

Which helps identify meteorites from Mars?

- A. Their weight is lighter.
- B. The color is redder.
- C. The gas composition matches Mars' atmosphere.

Answer: C

Many meteorites found on Earth formed when Vesta \_\_\_\_\_ .

- A. Was hit by another asteroid a billion years ago.
- B. Had an enormous volcanic eruption.
- C. Exploded.

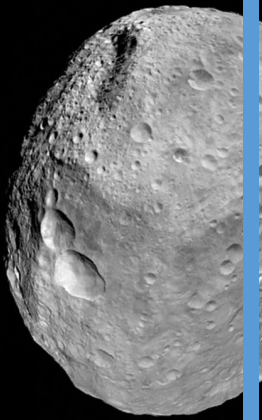
Answer: A

Iron meteorites come from \_\_\_\_\_ .

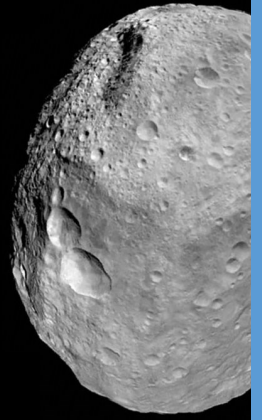
- A. The cores of shattered planetary bodies.
- B. Iron asteroids.
- C. Mars.

Answer: A

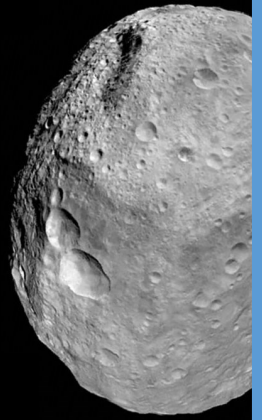
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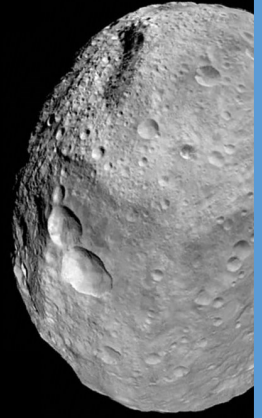
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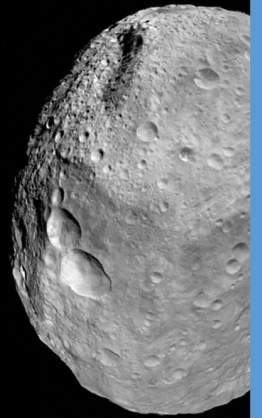
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