



JEOPARDY!

Comets, Meteors, Asteroids, and The Sun

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Comets	Meteors	Asteroids	The Sun	
<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	<u>\$100</u>	Comets Meteors Asteroid Sun
<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	<u>\$200</u>	Comets Meteors Asteroid Sun
<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	<u>\$300</u>	Comets Meteors Asteroid Sun
<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	<u>\$400</u>	Comets Meteors Asteroid Sun
<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	<u>\$500</u>	Comets Meteors Asteroid Sun

Final Jeopardy

**Comets are often called
this because of their
composition.**



**What is a dirty snowball
(ice)?**



**Return
to Game
Board**

The nucleus is made of



Category One, \$200 Answer

What is ice and dust?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

The direction that the tail of comet points is this direction because...



**What is away from the sun
due to solar winds?**



Return
to Game
Board

The three parts a comet



**What are the coma, tail
and nucleus?**



Return
to Game
Board

The terms meteoroid, meteor and meteorite each refer to a different stage in an object's descent. What do we call it as it streaks through a planet's atmosphere?



Answer

Category Two, \$100 Answer

What is a meteor?



Return
to Game
Board

**What we call a meteor after it
crashes into a planet**



Answer

Category Two, \$200 Answer

What is a meteorite?



Return
to Game
Board

**A meteor that has burned up in
the atmosphere**



Answer

Category Two, \$300 Answer

What is a meteoroid?



Return
to Game
Board

Meteors can be a big deal, but just how many meteors enter the Earth's atmosphere on a given day



Answer

Category Two, \$400 Answer

What is 10-40 tons?



Return
to Game
Board

**The location of most
asteroids in our solar
system.**



**What is the asteroid belt
between Mars and Jupiter?**



[Return
to Game
Board](#)

The composition of an asteroids



Category Three, \$200 Answer

What is rock and metal?



Return
to Game
Board

The different between meteors and asteroids.



Category Three, \$300 Answer

What is size?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

**This is a dwarf planet found
in the asteroid belt.**



Category Three, \$400 Answer

What is Ceres?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

**The two most abundant
solar elements**



Answer

What is hydrogen and helium?



[Return
to Game
Board](#)

**This is visible during a
TOTAL solar eclipse**



Category Four, \$200 Answer

What the corona?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

The size of the sun compared to the Earth



Category Four, \$300 Answer

What is 109 Earth radii?



[Return
to Game
Board](#)

**The two parts of the
solar atmosphere**



**What are the photosphere
and the chromosphere
(corona)?**



[Return
to Game
Board](#)

The growth of a massive
object by gradationally
attracting more matter



Category Five, \$100 Answer

What is accretion?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

**There was little hydrogen
and helium in the inner
solar nebula because of
this.**



**What is the temperature
was too high for them to
condense?**



Return
to Game
Board

**These collided to create
planets.**



Category Five, \$300 Answer

What are planetesimals?



Return
to Game
Board

**In contrast to the
formation of the
terrestrial planets, Jupiter
may have:**



What is the planet
condensed gravitationally
rather than by accretion?



Return
to Game
Board

Some scientists think that water and this organic material carried by comets may have seeded life on Earth.



Answer

Category One, \$500 Answer

What are amino acids?

A yellow five-pointed star with a black outline, containing the text 'Return to Game Board' in blue, underlined font.

Return
to Game
Board

The composition of a meteor



Answer

What is rock?

-iron, stony, stony-iron



Return
to Game
Board

In the asteroid belt, some areas are almost free of asteroids. These are known as,



Category Three, \$500 Answer

What are Kirkwood Gaps?



Return
to Game
Board

This is a stream of charged particles released from the upper atmosphere of the Sun and they are responsible for comets



Category Four, \$500 Answer

What are solar winds?



Return
to Game
Board

**Peak periods of sunspot activity
impact Earth this way.**



They can wreak havoc with our communications systems. It can interfere with the operation of satellites by introducing background static.

A yellow five-pointed star with a black outline, containing the text "Return to Game" in blue, underlined font.

[Return
to Game](#)

[Go to question](#)

Final Jeopardy!

[Go to question](#)

This holds the sun together.



Answer

- Gravity (immense mass) cause Sun to want to collapse on itself
- Pressure from rapid motion (hot gas) of atoms balances this

