

## Deep Impact

**Deep Impact** was one of several “end of the world” videos that Hollywood put out near the year 2000. It dealt with Earth being obliterated, or at least “life as we know it” ending. As you watch the Deep Impact video, answer these questions:

1. What is the name of the “star” that Leo’s girl friend thinks he is seeing?
2. What constellation is that star in?
3. What is the name of the comet?
4. Who is it named for?
5. Why were those names chosen?
6. Who/what does the reporter – Jenny Lerner - think ELE is?
7. What does ELE stand for?
8. What is the mission of the shuttle crew? What is the space ship named?
9. What is unusual about the space ship? Where is it being constructed?
10. The astronaut jobs are: shuttle pilot, navigator, physician, mission specialists, and Messiah pilot – why do they have two pilots?  
Why is Fish needed on this trip?
11. What are the astronauts going to do to the comet?
12. What is a “mole”, as it pertains to this movie?
13. Why does Fish move the ship closer to the four astronauts while they are on the comet ?
14. What happens to Gus Partenza? What happens to Orrin Monash?
15. What happens to the comet after the explosion?
16. Who is going to be saved (the characteristics of the people – age, etc)
  - a. How many scientists, engineers, teachers, etc
  - b. How many ‘regular ‘ people are going?
17. How are the “regular” people chosen?
18. What ages are considered “not important” enough to be saved?
19. Where are these special people going to be taken? How long do they have to be there?
20. How does Leo try to save Sara and her family?
21. What does Leo do, when he and the others reach the “Ark”?
22. What do the astronauts decide to do, after the first explosion?
23. What do they predict will be done in their honor, later?
24. What happens to the asteroid?
25. Where does the smaller piece land?
26. How far inland do the waters come up?
27. \*\*\*Watch carefully as the asteroid enters the earth's atmosphere. When did sound begin?
28. \*\*\*T/F You could watch a comet at that size and at that speed move past you without ill effects.
29. \*\*\*What happened to clouds above the impact site upon asteroid-earth contact?
30. How do Leo and Sara survive? Is that probable?
31. Who else survives with Leo and Sara? What happens to Sara’s parents?
32. \*\*\* After watching the video: List at least 3 global effects of asteroid impact.

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1. What is the name of the “star” that Leo’s girl friend thinks he is seeing? **Megrez** What constellation is that star in? **The faintest star of the Big Dipper, Megrez is in the Dipper's middle, linking the handle to the bowl.**
2. What is the name of the comet? **Wolf-Bierdeman**
3. Who is it named for? **Dr. Marcus Wolf and Leo Bierdeman**
4. Why were those names chosen? **The two who discovered the comet – the student, Leo, and the scientist at the observatory, Marcus Wolf.**
5. Who/what does the reporter – Jenny Lerner - think ELE is? **A woman that the Sec. Rittenhouse was having an affair with.**
6. What does ELE stand for? **Extinction Level Event**
7. What is the mission of the shuttle crew? **To blow up the comet/move it out of the current orbit.** What is the space ship named? **Messiah**
8. What is unusual about the space ship? **It is very large** Where is it being constructed? **In outer space**
9. The astronaut jobs are: shuttle pilot, navigator, physician, mission specialists, and Messiah pilot – why do they have two pilots? **One to land on the comet. None of the astronauts have done space landings on objects before.** Why is Fish needed on this trip? **He has landed on the moon six times and 500 landings on aircraft carriers.**
10. What are the astronauts going to do to the comet? **Blow it up with four nuclear warheads**
11. What is a “mole”, as it pertains to this movie? **A machine that drills down into the comet surface**
12. Why does Fish move the ship closer to the four astronauts while they are on the comet? **The drilling takes too long and they won’t have so far to go, to get back to the surface – the comet surface is going to heat up very quickly.**
13. What happens to Gus Partenza? **He gets blasted into space by gas jets** What happens to Orrin Monash? **He is blinded by the sun**
14. What happens to the comet after the explosion? **Breaks into two pieces, still in the same orbit however.**
15. Who is going to be saved (the characteristics of the people – age, etc)
  - a. How many scientists, engineers, teachers, etc **200, 000**
  - b. How many “regular” people? **800, 000**
16. How are the “regular” people chosen? **by lottery, using SSN**
17. What ages are considered “not important” enough to be saved? **Any one over 50 years old**
18. Where are these special people going to be taken? **Limestone caves in Missouri**
19. How long do they have to be there? **2 years, until the dust settles and the sun shines again.**
20. How does Leo try to save Sara and her family? **He and Sara get married, she is part of his family; also gets their names on the “lists”**
21. What does Leo do, when he and the others reach the “Ark”? **Goes back for Sara**
22. What do the astronauts decide to do, after the first explosion? **go into large hole on comet explode the remaining nuke ( still on the ship)**
23. What do they predict will be done in their honor, later? **Have high schools named after them**
24. What happens to the asteroid? Larger piece broken up to very small parts. **The other piece still hits Earth.**
25. Where does the smaller piece land? **The Atlantic Ocean, off shore of Washington/ Virginia**
26. How far inland do the waters come up? **600 miles**
27. \*\*\*Watch carefully as the asteroid enters the earth's atmosphere. When did sound begin? **After the comet goes through the atmosphere.**
28. \*\*\*T/F You could watch a comet at that size and at that speed move past you without ill effects. **False**
29. \*\*\*What happened to clouds above the impact site upon asteroid-earth contact? **They billow upward**
30. How do Leo and his wife survive? **They race up the hillside to get away from the tidal wave** Is that probable? **No**
31. \*\*\* After watching the video: List at least 3 global effects of asteroid impact.