

**The Universe
Asteroid Attack**

- 1. How large is the asteroid Apophis?**
- 2. What year might it first hit Earth?**
- 3. If it doesn't hit in the year 2029, when might it hit next?**
- 4. What is the "keyhole"?**
- 5. What is the weight of Apophis?**
- 6. If it does hit Earth how large would the crater be?**
- 7. In 2004 what were the odds of Apophis hitting Earth?**
- 8. What are the odds today?**
- 9. Asteroid and comets curve towards the object they may impact. Why?**
- 10. Smaller objects like the moon have a lower chance of pulling in an object like a meteoroid. Why?**
- 11. What impacted Jupiter in 1994?**
- 12. When was Jupiter hit again?**
- 13. When was the next impact of Jupiter?**
- 14. The main asteroid belt is located where?**
- 15. How large is Ceres?**
- 16. If it hit earth, what would be the size of the crater?**
- 17. Why are scientists not worried about Ceres hitting Earth?**

18. What are air bursts?
19. What are shooting stars?
20. Basketball size meteoroids hit Earth about _____.
21. Small car size meteoroids hit _____.
22. What happened at Vredefort South Africa around 2 billion years ago?
23. In the middle of the crater there are central rebound peak hills. What are they?
24. 35 million years ago there was an impact on the East coast of U.S. Where is the crater?
25. 2001 NASA mission NEAR. What is its purpose?
26. What did NEAR find out about Eros?
27. Describe what was special about Japan's satellite Hayabusa.
28. What is the purpose of NASA's mission DAWN in 2007?
29. There are several different compositions of asteroids. Describe several of them.
30. Asteroids may also have their own _____.
31. Asteroids may also travel in _____.
32. Why are asteroids not as much of a threat as comets?
33. In 2010, President Obama said it should be a goal to send a manned mission to where?

- 34. What makes landing on an asteroid so difficult?**

- 35. How could asteroids be of importance to man?**

- 36. NASA sent up WISE in 2009. Using wide field IR survey it found _____ asteroids and _____ comets.**

- 37. In April of 2010 a 70 foot asteroid passed how far from Earth?**

- 38. Back in 1972 an asteroid was seen but it never made impact. What happened to it that saved Earth?**