

Name _____ Date _____ Block _____

Introduction to Comets, Meteors and Asteroids

<https://www.youtube.com/watch?v=tqOmAA0HIEM> (2 min)

1. What is the difference between a comet, meteor and asteroid?

<https://www.britannica.com/place/Meteor-Crater>

2. Meteor Crater in Arizona is the best-preserved crater in the world. Describe the various features around and in the crater that was detected over the years.

<https://www.youtube.com/watch?v=CIW3EB8Ptuw> (13 min)

3. What are meteorites and where do most of them originate from?

4. What are the 3 types of meteorites?

5. What are chondrites and chondrules?

6. What does it mean for a meteorite to be differentiated? Versus undifferentiated?

7. What are some signs of a meteorite? (list at least 5)

8. Iron meteors have what sort of pattern when they are cut and polished?

9. What are the green crystals in a stony-iron meteorite?

10. What are the signs of meteors wrongs?

https://www.youtube.com/watch?v=gY0zDyCnH_4

11. Event #10-Halley's Comet. What is special about Halley's comets?

12. When will it appear next?

13. Halley's fragments create what?

14. Event #9- What will happen and when?

15. Event #8-What is special about this solar eclipse?

16. Event #7- What is the chance of seeing a supernova in your life? (when will it occur)

17. Event #6- What is occulted?

18. Event #5 Leonid Meteor shower. What is the cause of it and what will be special about it in 2031?

19. Event #4: What will happen in 2040?

20. Event #3: When is the next big super moon?

21. Event #2: When do we plan to have humans on Mars?

22. Event #1: What will happen to the constellation Cygnus? What will cause this?

https://www.youtube.com/watch?v=CGhXsC_xTQ8

23. What was the cause of the dinosaur extinction?

24. What evidence do we have for this? (discuss K-Pg boundary, tektite).

25. Where did the dino-killing event occur?

26. Why did the planet heat up then cool down from this event?

<https://www.youtube.com/watch?v=kpLY0YwMACE> (interesting video to watch)

What are the 7 features of an impact crater? (Lecture notes in class)

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