

How the Universe Works: Black Holes
Video questions

Name: _____ Date: _____ Block: _____

1. **T or F** : There is plenty of evidence today to prove that black holes exist.

2. The power of black holes comes from _____.

3. Black holes are even strong enough to swallow _____.

4. What would happen if a black hole made its way into our solar system?

5. Earth crushed to the size of _____ inches would equal the density of a black hole.

6. Only super massive stars create _____, the biggest explosions in space.

7. _____ are giant bursts of energy that usually only lasts a few seconds. Most occur outside our galaxy.

8. The number of gamma rays bursts equals number of _____.

9. NASA's Swift satellite detects _____ gamma ray burst every day!

10. _____ of black holes are in the universe.

11. The event horizon is the _____ of a black hole.

12. What is "spagettification"?

13. Do astronomers understand exactly what singularity is?

14. Most black holes are about _____ miles across.

15. It was discovered that stars in the center of our Milky Way Galaxy are moving millions of miles an hour around a _____ - _____ black hole.

16. Quasars are the _____ objects in the universe.

17. Quasars send out _____ (type of radiation). Each one indicates a _____ galaxy.

18. _____ can be used to make an image of the edge of a black hole.

19. Some scientists believe that _____ exist in black holes.

20. Every black hole might be the origin of another separate _____.