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 .