

Name _____

Black Hole Vocabulary Puzzle Grid

Instructions: Below are **10 important terms** related to black holes (left column) and **10 definitions** (right column), labeled **A through J**. Match each term to its correct definition by writing the letter of the definition next to each term.

Terms

1. Singularity _____

2. Event Horizon _____

3. Accretion Disk _____

4. Spaghettification _____

5. Hawking Radiation _____

6. Gravitational Lensing _____

7. Stellar Black Hole _____

8. Supermassive Black Hole _____

9. Quasar _____

10. Escape Velocity _____

Definitions

A. The distorted stretching of objects falling into a black hole due to intense gravitational differences.

B. The theoretical point in space where density becomes infinite and volume approaches zero.

C. The outer boundary of a black hole beyond which nothing can return.

D. A disk of gas and dust spiraling into a black hole that emits heat and light.

E. A compact object formed when a star several times the mass of the Sun collapses after a supernova.

F. A bright, energetic region at the center of some galaxies powered by a black hole feeding on material.

G. Radiation that may be emitted by black holes due to quantum effects near the event horizon.

H. The minimum speed needed to escape the gravitational pull of a massive body like a black hole.

I. The bending of light around a massive object, creating distorted or magnified views of distant galaxies.

J. A black hole with mass millions to billions of times greater than the Sun, found at the center of galaxies.