

Name _____



Black Hole Myth Busters: Fact or Fiction?

Mission Brief: You've been recruited by the **Galactic Science Bureau** to investigate claims made about black holes in a popular sci-fi documentary called "*Cosmic Crunch*." The film is filled with wild statements-some are surprisingly accurate, but others are completely wrong!

Your task: **Label each of the 12 statements below as TRUE or FALSE.**

If the statement is FALSE, **rewrite it to be scientifically accurate.** If it's TRUE, just write "TRUE" next to it.

Example Format:

FALSE - Corrected: Black holes don't suck like vacuum cleaners; they pull objects with gravity, just like any other massive object.

Statements

1. Black holes are giant holes in space that suck everything like a vacuum cleaner.

_____ - Corrected: _____

2. Not even light can escape a black hole's gravitational pull.

_____ - Corrected: _____

3. All black holes are the same size.

_____ - Corrected: _____

4. The center of a black hole is called a singularity.

_____ - Corrected: _____

5. If Earth became a black hole, it would swallow the entire solar system.

_____ - Corrected: _____

6. You can see a black hole with your eyes if you're close enough.

_____ - Corrected: _____

7. Some black holes spin.

_____ - Corrected: _____

8. Black holes can only form from stars larger than our Sun.

_____ - Corrected: _____

9. The first image of a black hole was taken in 2019.

_____ - Corrected: _____

10. Anything that crosses the event horizon can still escape if it moves fast enough.

_____ - Corrected: _____