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Which statements are True and which statements are False?

- TRUE / FALSE** ✓ **A)** Black holes are not real. They are just found in science fiction stories.
- TRUE / FALSE** ✓ **B)** Black holes can be seen.
- TRUE / FALSE** ✓ **C)** Black holes are empty.
- TRUE / FALSE** ✓ **D)** There is only one large black hole in our universe.
- TRUE / FALSE** ✓ **E)** Astronomers know exactly what is inside a black hole.

WELL DONE!

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Reading Passage

Galaxies & The Universe **Black Holes**

There are many things that we can observe in the universe, and some we cannot. Have you ever wondered how we see all of the things we do in the universe? You can see things because light reflects off them and your eye can pick up that image. **Black holes** are invisible! This is because the force of gravity from them is so strong that not even light can escape. They just look like a "black hole" when you see them in the universe.



(touch the image to enlarge)

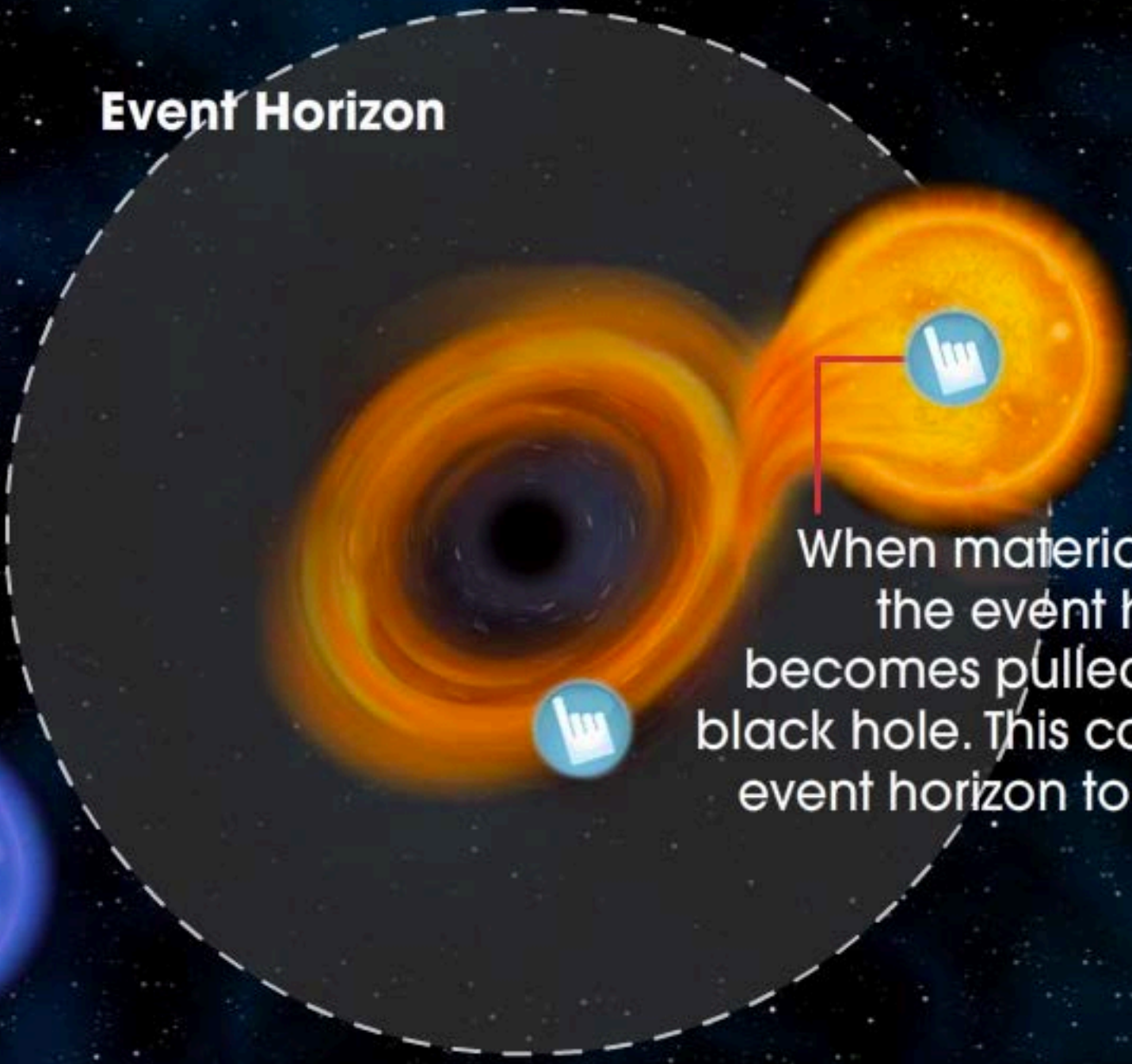
There are lots of holes on Earth. You can dig a hole in a sandbox or get a hole in your sock. Our holes have nothing in them. They are empty.

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Anatomy of a Black Hole

Event Horizon



When material crosses the event horizon, it becomes pulled into the black hole. This causes the event horizon to expand.

The diagram shows a central black hole with a dark center and a swirling accretion disk of orange and yellow gas. A dashed white circle represents the event horizon. A blue sphere with a hand icon is shown being pulled into the black hole, with a red line indicating the path of the material. Another blue sphere with a hand icon is shown to the left, and a third is at the bottom. A green triangle points to the right in the bottom right corner.

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