

## HUNGRY BLACK HOLE (AGES 4-99+)

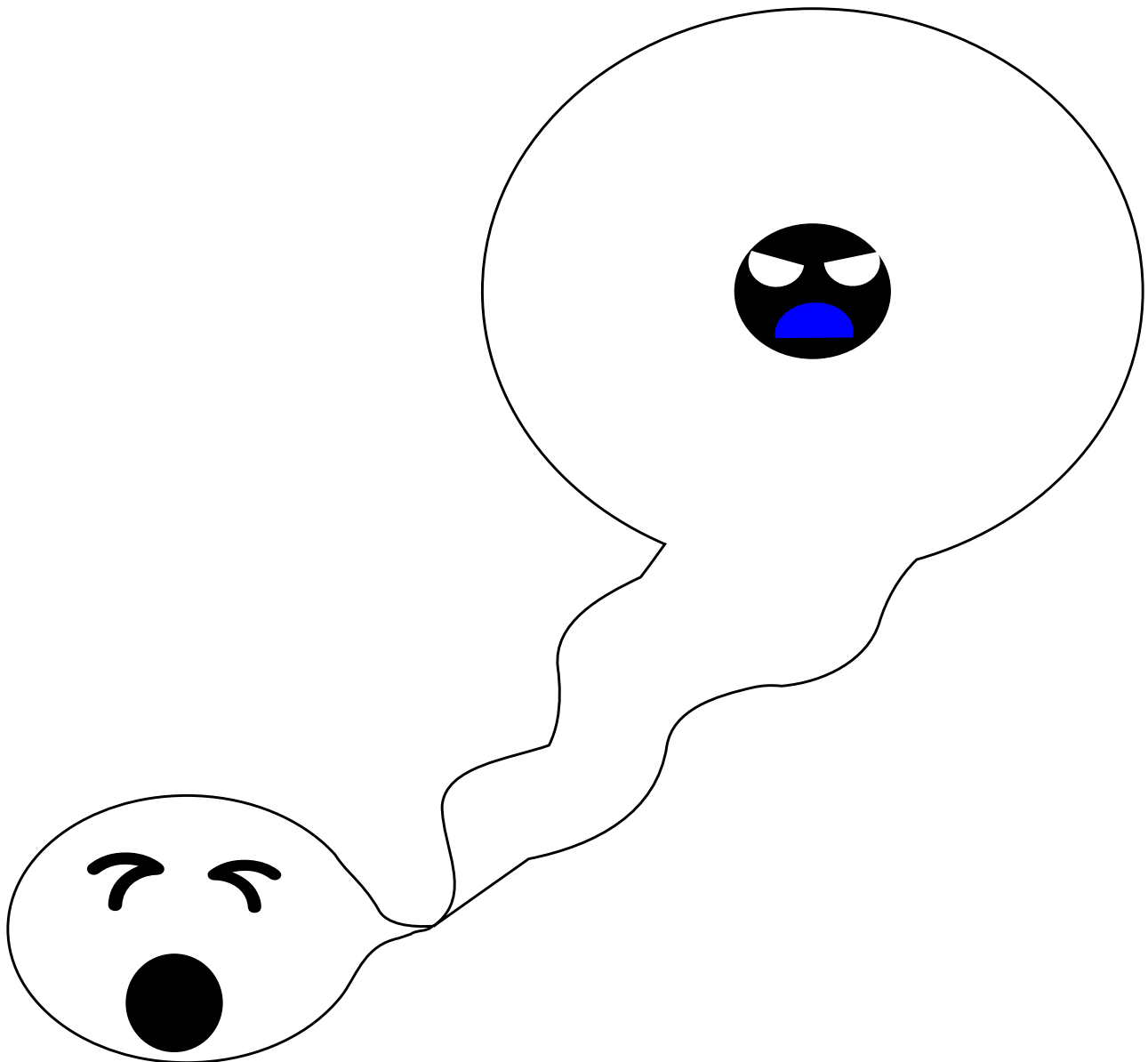
Black holes are the shadowiest and hungriest monsters in the universe! When a star comes too close to a black hole, this monster will try to eat it. First, it will pull the star apart, turning it into a strand of spaghetti. Yummy!

But monster black holes don't like their food unless it's nice and warm! The black hole will then form a doughnut around itself with the spaghetti-fied star. The strand of spaghetti will slowly spin around the monster as if it was inside a microwave. However, unlike in a microwave where food only spins, the spaghetti-fied star will also move towards the mouth of the monster. As it moves inwards it will slowly warm up.

Astronomers, the charming scientists that observe black holes in the sky using telescopes, see that when the star forms the doughnut it warms up changing its colour to red. As the star moves closer to the black hole it warms up more and more, and its colour changes to blue, like in the hottest part of a candle flame!

Exercise:

An unlucky star of the same colour as our Sun (YELLOW) has come too close to a black hole (BLACK). The black hole is pulling it to it and it has started forming a doughnut around it. The outer part of the doughnut is cooler (RED) compared to the inside part that has heated up (BLUE). Add some colour to the image. You can try to reproduce the colours of the image on the next page and add new objects.



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