

Name:

Class:

## Video worksheet

# Black holes

Before completing this worksheet, watch the related video on your obook assess.

1 What causes a black hole to form?

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2 How big is the singularity in the centre of a black hole?

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3 What happens to objects that pass by a black hole?

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4 What is an accretion disc?

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5 Where are black holes located?

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- 6 Black holes are thought to have the highest gravitational pull of any object in the universe. Imagine you are flying towards a black hole. After watching the video, describe the sensations you would experience as you got closer. You may want to do some additional research to complete this task.

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- 7 a Go back to the beginning of the video and rewatch that explains how the universe can be thought of as a gigantic mesh. Draw a diagram showing the Sun affecting space using the mesh model.



- b Using your diagram above, explain how the planets orbit the Sun.

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