

Black Holes

Lesson Title: Black Holes

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In this lesson, you will explore an online module called “No Escape: The Truth about Black Holes.” Go to the E-Sheet, **Black Holes Exploration** (<http://www.sciencenetlinks.com/Esheet.cfm?DocID=31>), for directions on how to get started.

Once you are at the “Is a Black Hole Really a Hole?” page, scroll your mouse over the black hole image on the left-hand side of the screen and jot down some information about the following:

- Jets of Gas
- Accretion Disk
- Event Horizon

Then click the “Next” arrow button found at the top right corner of the screen. You will come to a page that has six options. Click on “See a Black Hole in Action.” Describe what you see.

Go back to the “Is a Black Hole Really a Hole?” page, click on “What Types of Black Holes Are There?” Read about the three types of black holes and describe each one in your own words:

- Stellar Black Holes:
- Supermassive Black Holes:
- Miniature Black Holes:

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Now go back to the “Is a Black Hole Really a Hole?” page. Read the statements below, and using what you have learned about black holes, decide if the statement is a fact or a myth, and then check the appropriate box.

	Myth	Fact
The volume of a black hole is huge.		
Black holes have no mass.		
A rotating black hole may lie at the center of our galaxy.		
Gravity bends light.		
Our sun will eventually become a black hole.		
Light cannot escape from a black hole.		
Black holes will pull in everything in the universe and eventually destroy it.		
NASA sent a space probe into a black hole.		
The gravity of a black hole is felt everywhere.		
The gravity that your body creates is felt everywhere.		

Now click on the section called “What Do You Know About Black Holes?” Check your answers to the above chart by taking the quiz. Correct any wrong answers and explain why they were wrong in the space below.