

Student Worksheet for the Hubble Space Telescope Scavenger Hunt

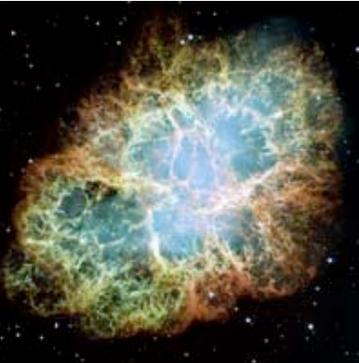
Instructions:

Team up with another student. Go to these web pages to find your answers.

http://hubblesite.org/reference_desk/ <http://hubblesite.org/gallery> <http://hubblesite.org/newscenter/>

http://hubblesite.org/explore_astronomy/piercing_the_sky/

Write your answers in the boxes. The team with the most correct answers when time is called wins!

FIND IT!	NAME IT!	EXPLORE IT!
		<p>What is embedded in the center of the nebula?</p> <p>Who first recorded this event?</p>
		<p>What is the difference between a galaxy and a nebula?</p> <p>How are galaxies classified?</p>

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		<p>How is this type of galaxy different from a regular spiral galaxy?</p> <p>Greek astronomers called a galaxy “galaxies kuklos”, which is also thought to be the same kind of galaxy pictured. What is the name of this galaxy?</p>
		<p>What kind of galaxy is this?</p> <p>Write a definition for this type of galaxy.</p>
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		<p>What is happening to these two galaxies?</p> <p>What are the two orange blobs in the picture?</p>
		<p>In what galaxy are these stars located?</p> <p>Approximately how old are these stars?</p> <p>Give a definition of these kinds of stars.</p>
		<p>What is a Wolf-Rayet Star?</p> <p>How is this star type different from white dwarf stars?</p>

<p>FIND IT!</p>	<p>NAME IT!</p>	<p>EXPLORE IT!</p>
		<p>What did this scientist see in 1845?</p> <p>This galaxy is now known by this name.</p> <p>How far away is this galaxy from the Milky Way galaxy?</p>
		<p>In 1929 this scientist aimed the 100-inch telescope on Mt. Wilson in California at Great Spiral in the Andromeda Galaxy . What was this scientist's name?</p> <p>This scientist actually found the existence of one of these.</p>
 <p>Take a journey to this http://hubblesite.org/explore_astronomy/</p>		<p>Take a journey to a black hole. When visiting a black hole, what force distorts the view seen by bending the light coming from distant stars?</p> <p>Name the locations of the two black holes featured in this interactive video.</p>

FIND IT!	NAME IT!	EXPLORE IT!
<p>This number expresses the rate at which the universe expands with time.</p>		<p>In this news release, Riess used Hubble Space Telescope's crisp view along with 2003 data from NASA's Wilkinson Microwave Anisotropy Probe to refine the value of the universe's expansion rate to three percent. What does this new value imply about dark energy?</p>
<p>Term commonly used to describe how the universe began. Check this web page: http://hubblesite.org/newscenter/archive/releases/2004/28/</p>		<p>What percent of the way back in time has the Hubble looked to see glimpses of the beginning of the universe?</p>
		<p>Define this term.</p> <p>When scientists used the HST to study Cygnus X-1, they were able to observe two of these events, which defines the term defined above.</p>