

Stars, Galaxies, and the Universe



Name Class As an astronomer observes the night sky, one star The **composition** of stars is the list of elements appears to be red and another that make up that star. The composition of a star is blue. What does this mean? determined by studying the light the star gives off. Which of the following instruments helps scientists The red star is hot and analyze the composition of stars? the blue star is eee The red star is cool and the blue star is hot. a barometer drogei They are at different distances from the earth a spectrogra causing different colors. a telescope The earth's atmosphere "bends" ooks red and blue Stars have been classified since the 1800s Ancient astronomers tried to categorize the 3 brightness of stars by standing under the night sky Then, they were classified based on the and observing. Today we know that brightness elements determined to be in the stars based depends in part on that star's distance from the on spectrograph studies. Today, stars are 5 **PREVIEW** Please Sign In or Sign Up to download the printable version of this worksheet 7 over retracting telescopes. I ne main 500 light years away. How many kilometers difference is that reflecting is the star from the earth? telescopes use lenses and star A 150,000 km refracting telescopes use mirrors to gather and **B** 150,000,000 km focus light. 1.5 billion km over 4.7 x 10 The earth's atmosphere blocks out certain When using a reflecting or refracting 9 types of rays. Which of the following types of telescopes, why is it best to place use the telescope on a mountain top? telescopes can only work in orbit outside of the A this gets the telescope earth's atmosphere? closer to the stars a mountain top is away A refracting telescope from lights and pollution B reflecting telescope C the air is thinner C x-ray telescope D both b and c p radio telescope



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