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Stars, Galaxies and the Universe

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| **Across****2.** Pair of stars that revolve around each other and are held together by gravity. **4.** Nightly luminous stars from main sequence stars that are more massive than the sun, which becomes larger than giants in their third stage. **6.** An observed change in the frequency of a wave when the source or observer is moving. **8.** The colors in the spectrum of a side moving toward earth are shifted slightly toward blue. **10.** A collection of stars, dust, and gas bound together by gravity. **11.** A large celestial body that is composed of gas and that emits light. **12.** A spiral galaxy in which the sun is one of hundreds of billions of stars. **13.** The study of the origin, properties, and evolution of the universe. **14.** The brightness of a star as seen from earth. **16.** Unknown material | **Down****1.** an object so massive and dense that even light cannot escape its gravity. **3.** The total amount of energy stars give off each second.**5.** A large cloud of gas or dust in interstellar space; a region in space where stars are born. **7.** The coldest temperature possible. **9.** 14 billion years ago, a sudden event that sent all matter and energy outward in all directions. **15.** A star that suddenly becomes brighter. |