Gravity, Light, & Stars

Name:	
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1. What is Mass?

2. Does Gravity attract or repel objects?

3. When objects are free to move under the effects of gravity, we say they are in .

4. The escape velocity of an object like a planet or star depends on how much

_____ it has and how _____ it is.

5. Gravity gets weaker with _____

6. Light is a form of ______.

7. The energy of light is tied to its ______.

8. Light with a shorter wavelength has _____ energy, and light with a longer wavelength has _____ energy.

9. Atoms have a nucleus with positively charged _______,
protons, and negatively charged outer layer of ______.

10. When an electron jumps up or down on their "electron ladder" it absorbs or
emits a very specific of light.
11. The Doppler Effect: If an object is headed towards you, the wavelength of light
from the source gets compressed, shorter. We say the light isshifted.
If it heads away, the wavelength gets longer, and it'sshifted.
12. A spectrum is one in which light is emitted at all wavelengths.
13. Different elements absorb different
14. Annie Jump, a spectroscopist, dropped and merged a few of the old classifications, and then rearranged them into one that classified stars by the strengths and appearances of many different absorption lines in their spectra
15. Stars on the lower left are hot, blue-white, but very faint and therefore must be small. We call them
16. Stars on the upper right are luminous but cool. They must therefore be huge.

These are called	
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