## Solar Elements

Element	Abundance (% of total number of atoms)	Abundance (% of total weight)
Hydrogen	91.2%	71.0%
Helium	8.7%	27.1%
Oxygen	0.078%	0.97%
Carbon	0.043%	0.40%
Nitrogen	0.0088%	0.096%
Silicon	0.0045%	0.099%
Magnesium	0.0038%	0.076%
Neon	0.0035%	0.058%

Here is a table of the most common chemical elements that make up the Sun:

source: NASA Imagine the Universe! web site,

http://imagine.gsfc.nasa.gov/docs/ask\_astro/answers/961112a.html

The reason that the percentages are different between the two columns is that atoms of some elements are heavier than atoms of other elements.

- **1.** Based on the above data, which is heavier, a Hydrogen atom or a Helium atom? Explain your reasoning.
- **2.** Based on the above data, which is heavier, an Oxygen atom or a Carbon atom? Explain your reasoning.
- **3.** Out of all the elements listed in the chart, which has the heaviest atoms? Tell how you get your answer.
- **4.** Rank the elements according to the weight of their atoms. List the element with the heaviest atoms at the top and the element with the lightest atoms at the bottom.