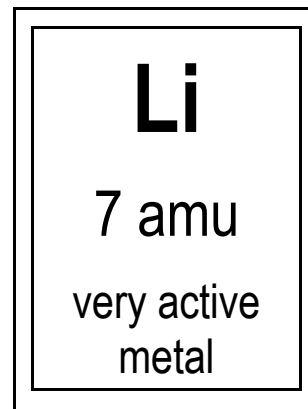


Simulating Mendeleev

Dmitri Mendeleev (1869) prepared a card similar to the one displayed to the right for each of the known elements. On the card, he listed the symbol, the atomic mass, and the chemical properties. By placing the information on separate cards, Mendeleev was able to move them into any order he desired to look for patterns. The Dalton model of the atom, developed in 1803, distinguished between atoms of different elements based on mass. Mendeleev chose to arrange his cards in order of increasing mass.

Directions: You will be given a deck of 14 index cards, each listing the symbol, mass, and chemical properties of a different element. Arrange the cards in order of increasing mass and look for a pattern that groups elements with similar chemical properties. Draw your arrangement in the space below.



Drawing _____

Conclusions _____

How does your arrangement compare to the actual *Periodic Table*? _____
