

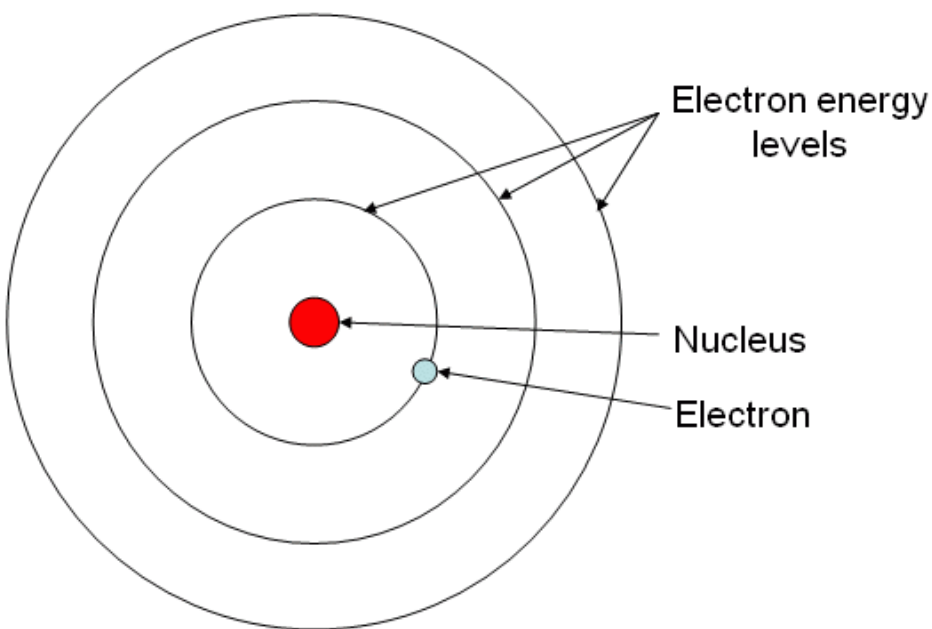
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NAME:

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1. What is a photon?

2. The picture below shows an atom of Hydrogen with some of its possible electron orbits (three energy levels are shown). Electron is currently in its ground state.



- a. Suppose you HEAT the atom. On the picture, show possible electron transitions (use arrows to indicate where electron can go).
- b. How many emission lines (distinct colors) can this configuration yield?

3. What is a Flame Test?