

Light and Electrons

1. First Name Of A Person
2. Adverb
3. Adjective
4. Verb - Base Form
5. Adjective
6. Noun
7. Verb - Present Ends In Ing
8. Adjective
9. Adjective
10. Noun
11. Verb - Present Ends In S
12. Adjective
13. Noun - Plural

Light and Electrons

The evidence used to support _____ First Name of a Person model came from the atomic spectra. He suggested that an atomic spectrum is made by the electrons in an atom moving energy levels. The electrons _____ Adverb have the _____ Adjective energy possible, called ground state. If the electrons are given energy (through heat, electricity, light, etc) the electrons in an atom could _____ Verb - Base Form energy by jumping to a higher energy level or an _____ Adjective state. The electrons then give off the energy they had absorbed in the form of a piece of light, called a _____ Noun, to fall back to a lower energy level.

The energy emitted by electrons _____ Verb - Present ends in ING back to _____ Adjective energy levels would always be precise amounts of energy because the differences in energy levels were precise. This explains why you see _____ Adjective lines of light when looking at an atomic spectrum - each line of light matches a specific "step down" that an _____ Noun can take in that atom. This also _____ Verb - Present ends in S why each element produces a _____ Adjective atomic spectrum. Because each element has different acceptable energy levels for their electrons, the possible steps each element's electrons can take differ from all other _____ Noun - Plural.