



Bohr Atomic Model



1. [Guess if the following statements are correct. Write "T" if it is true or "F" if it is false.](#)

Electrons can have stable orbits around the nucleus.

The energy of an electron is higher for smaller orbits.

Radiation can occur only when the electron jumps from one orbit to another.

According to Planck, when a body is heated it's radiant energy in a particular frequency is proportional to the temperature of the body.

Bohr explained how electrons could jump from one orbit to another only by emitting or absorbing energy in fixed quanta.

2. [Join with arrows](#)

The energy of an electron depends on the

Constant

To explain the light radiation emitted from heated bodies,
Plank introduced in 1900 his

Size of the orbit

The energy quantum is related to the

Frequency of the light

3. [Drag the possible physics' names and drop them on the correct position.](#)

The motion of the electrons in the _____ model was unstable.

_____ required that electrons move in orbits of fixed size and energy.

_____ postulated that energy can only be emitted or absorbed in discrete amounts, which he called quanta.

Bohr

Rutherford

Planck

4. [Watch the following video to understand the Bohr atomic model](#)