

Static electricity

Grade 3 Science Worksheet

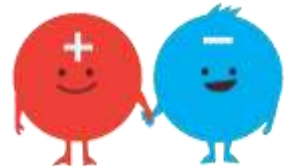
positive negative attract
 force atoms repel electrons

Static electricity is an invisible _____. It happens when tiny particles in _____ are attracted to or repel each other.



Protons have a _____ charge. Electrons have a _____ charge. Protons _____ or move away from other protons. Electrons repel or move away from other _____.

What happens between a proton and an electron? They _____, or move toward each other.



What is happening here? _____



If the hair has a negative charge, what does the balloon have? _____

Answers

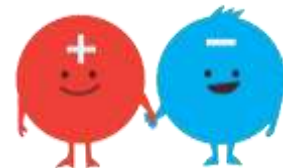
positive negative attract
 force atoms repel electrons

Static electricity is an invisible force.
 It happens when tiny particles in atoms
 are attracted to or repel each other.



Protons have a positive charge. Electrons have
 a negative charge. Protons repel or
 move away from other protons. Electrons repel or
 move away from other electrons.

What happens between a proton and an electron?
 They attract, or move toward each other.



What is happening here? _____
There is static electricity between the hair
and the balloon. The hair is attracted to
the balloon because they have opposite
charges.



If the hair has a negative charge, what
 does the balloon have? Protons are attracted to neutrons.
Thus the balloon has a positive charge.