Name:	Class:	Date given:
		Date due in:

Static Electricity

1. Use the words from the box to complete the gaps in the paragraph below. [13]

atoms	negative			
friction	equal	loses		
move	insulating	positive		
electrons	oppopsite	protons		
gains	fixed			
conta	in charges and	charges. The positive		
charges are called	The negative charges are called	Electrons		
can	_, however the positive charges are			
		с.		
It two	objects are rubbed together the force	ot can		
cause the electrons to be scraped off one object and left on the other object.				
The object which	electrons becomes negatively	charged. The object which		
electrons becomes positively charged. The two objects will have,				
but	_ charges.			

Rubbing a plastic rod with a cloth causes electrons to move from the cloth to the rod.





- 2. Label the charges on the cloth and the rod using a + for a positive charge and a for a negative charge. [2]
- 3. Draw arrows between the pairs of particles to show which way they will move when they are within their electric fields. [3]



4. Describe the movement of charged particles, as you have labelled in question 3. [2]

Learning Outcomes (tick if achieved)

Q1	I can describe an atom in terms of charged particles	
φ2	I can identify where positive and negative charges occur	
Φ3	I can describe the behaviour of charged particles	





Static Electricity Answers

1. Use the words from the box to complete the gaps in the paragraph below. [13]

ATOMS contain **POSITIVE** charges and **NEGATIVE** charges. The positive charges are called **PROTONS**. The negative charges are called **ELECTRONS**. Electrons can **MOVE**, however the positive charges are **FIXED**.

If two **INSULATING** objects are rubbed together the force of **FRICTION** can cause the electrons to be scraped off one object and left on the other object.

The object which **GAINS** electrons becomes negatively charged. The object which **LOSES** electrons becomes positively charged. The two objects will have **EQUAL**, but **OPPOSITE** charges.

Label the charges on the cloth and the rod using a + for a positive charge and a - for a negative charge. [2]



3. Draw arrows between the pairs of particles to show which way they will move when they are within their electric fields. [3]



4. Describe the movement of charged particles, as you have labelled in question 3. [2]

opposite charges attract

same/like charges repel



