## ELECTRICITY

## **Electrical Charges**

If an object has more positive charges ((3)) than negative charges ((3)), its electrical charge is positive ((3)).

If an object has more negative charges ((a)) than positive charges ((a)), its electrical charge is negative ((a)).

If an object has the same number of positive (3) and negative (3) charges, it has no electrical charge or is neutral.

Example:



Electrical charge: positive charge

Count the positive and negative charges in each picture. Write <u>positive charge</u>, <u>negative charge</u>, or <u>no charge</u> on each line.

1.



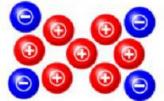
2.



electrical charge: \_

electrical charge:

3.



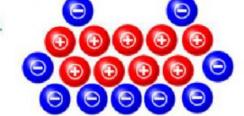
4.



electrical charge: \_

electrical charge:

5



6.



electrical charge: \_

electrical charge: \_

Choose	the	correct	sentence	for	each	definition:
CITOOSC		COLLECT	JULICUITU	101	CUCII	acinination.

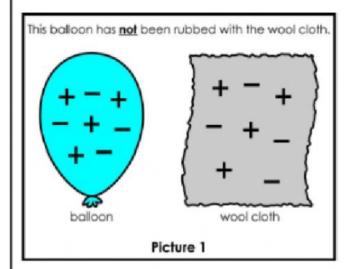
- When electrons jump from

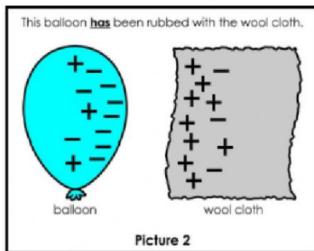
	atom to atom - A pathway, in which current flows	- static electricity			
	- Some insulating materials become charged when rubbed	- electric current			
	- They whizz round and round the nucleus of the atom	- electric circuit			
Comp	plete these sentences with the most suitable wo	rd.			
(electrons/protons) have negative charge and protons have (positive/negative) charge.					
	- A (stable/charged) atom has the sa electrons and protons.	me number of			
	<ul> <li>If an atom has a higher number of electrons than of protons it is</li> <li> (positively/negatively) charged.</li> </ul>				
	- If an atom has a lower number of electrons than of protons it is (positively/negatively) charged.				
	- If an atom is stable it (has/does not h	ave) charge.			

- electrons

## Static Electricity

Rubbing a balloon with wool cloth will create static electricity charges.





In Picture 1, does the balloon have a positive charge, negative charge, or no charge?
In Picture 1, does the cloth have a positive charge, negative charge, or no charge?
In Picture 2, does the balloon have a positive charge, negative charge, or no charge?
In Picture 2, does the cloth have a positive charge, negative charge, or no charge?
If you place small pieces of tissue paper near the balloon in Picture 2, they would probably stick to the balloon. Explain why.