

Nama Lengkap : _____

Kelas : _____

No Absensi : _____

Tujuan Pembelajaran :

1. Menjelaskan pengertian atom
2. Menjelaskan bagian-bagian penyusun atom
3. Menjelaskan teori atom
4. Memberi contoh model atom
5. Menjelaskan muatan listrik pada atom
6. Menjelaskan muatan listrik pada benda
7. Menyebutkan benda-benda yang dapat diberi muatan listrik
8. Menyebutkan jenis muatan listrik yang dihasilkan

Simak tayangan video berikut :



Setelah menyimak video di atas, jawablah pertanyaan berikut:

A. Pilihlah jawaban yang tepat untuk soal berikut!

1. A vinyl balloon is rubbed on a wool sweater. Vinyl has a greater affinity for electrons than wool.



A. Once rubbed, what is the charge on the wool sweater?

Positive

Negative

Neutral

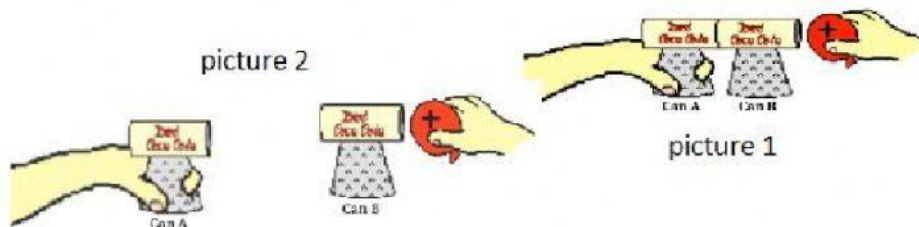
B. What is the charge on the vinyl balloon?

Positive

Negative

Neutral

2. Two neutral, metal cans - mounted on insulating stands - are touching. A positively-charged balloon is brought near Can B. The cans are then separated and the balloon is moved away.



A. What is the charge on Can A?

Positive

Negative

Neutral

B. What is the charge on Can B?

Positive

Negative

Neutral

3. A neutral metal can is mounted on a foam stand. A positively charged balloon is brought near. The can is touched on the opposite side.



picture 1



picture 2



- A. After being touched, what is the charge on the can?

Positive

Negative

Neutral

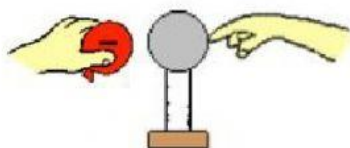
- B. What is the charge on the balloon?

Positive

Negative

Neutral

4. A negatively-charged balloon is brought near a neutral, conducting sphere (mounted on an insulating stand). The sphere is touched by a person and the balloon is moved away.



picture 1



picture 2



- A. Once the process is over, what is the charge on the balloon?

Positive

Negative

Neutral

- B. What is the charge on the metal sphere?

Positive

Negative

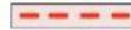
Neutral

Check

5. A negatively-charged foam board is on the table. A neutral aluminum pie tin is held above it. The pie tin is then touched.



picture 1



picture 2

- A. Once touched, what is the charge on the pie tin?

Positive

Negative

Neutral

- B. What is the charge on the foam board?

Positive

Negative

Neutral

6. A positively-charged acrylic plate is on the table. A neutral aluminum pie tin is held above it. The pie tin is then touched.



picture 1



picture 2



- A. Once touched, what is the charge on the pie tin?

Positive

Negative

Neutral

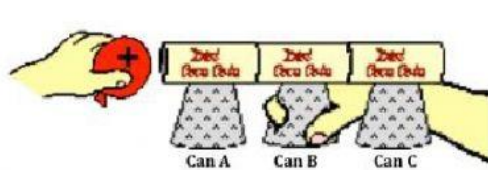
- B. What is the charge on the acrylic plate?

Positive

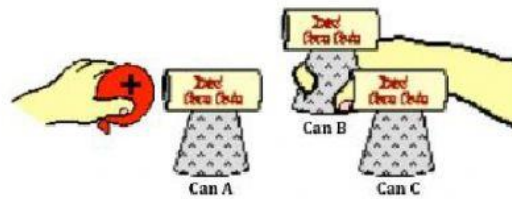
Negative

Neutral

7. Three neutral, metal cans - mounted on insulating stands - are touching. A positively-charged balloon is brought near Can A. Can B is then removed.



picture 1



picture 2

A. What is the charge on Can A?

Positive

Negative

Neutral

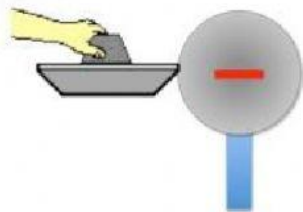
B. What is the charge on Can C?

Positive

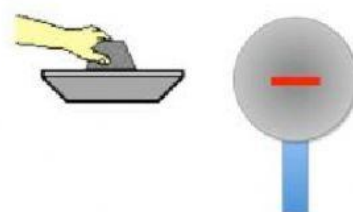
Negative

Neutral

8. A neutral aluminum pie tin is brought near and touched to a negatively-charged metal sphere.



picture 1



picture 2

A. After touching, what is the charge on the pie tin?

Positive

Negative

Neutral

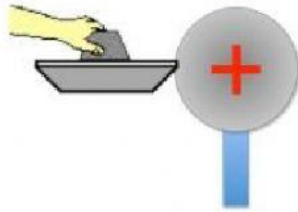
B. What is the charge on the metal sphere?

Positive

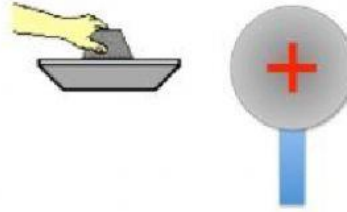
Negative

Neutral

9. A neutral aluminum pie tin is brought near and touched to a positively-charged Van de Graaff generator.



picture 1



picture 2

- A. After touching, what is the charge on the pie tin?

Positive

Negative

Neutral

- B. What is the charge on the Van de Graaff generator?

Positive

Negative

Neutral

10. A glass plate is rubbed with a cotton cloth. Cotton has a greater affinity for electrons than glass.



- A. Once rubbed, what is the charge on the cotton cloth?

Positive

Negative

Neutral

- B. What is the charge on the glass plate?

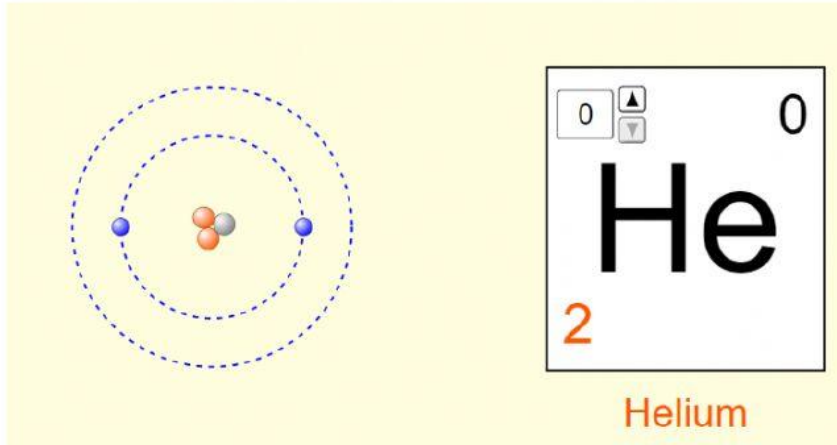
Positive

Negative

Neutral

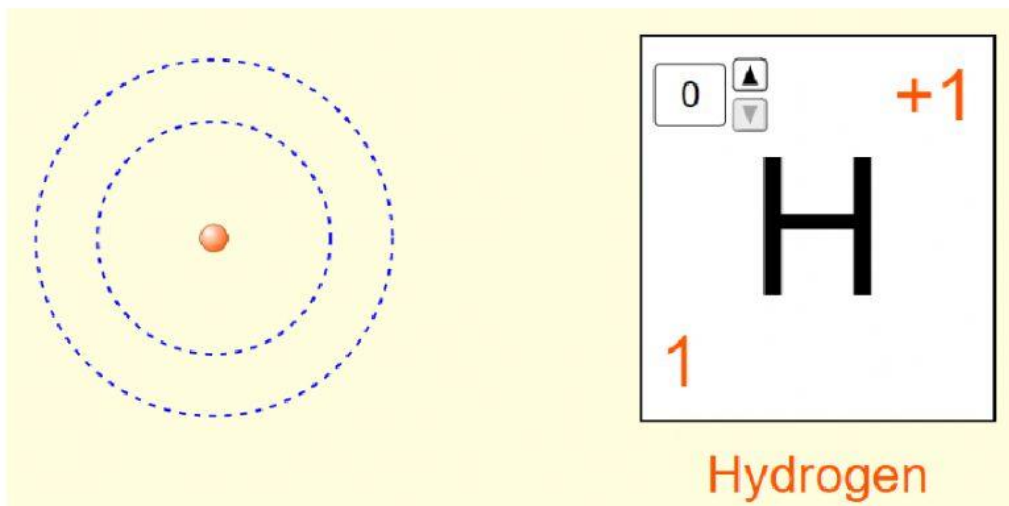
B. Jawablah pertanyaan berikut :

Perhatikan gambar berikut :



Berapakah nilai nomor massa diatas?

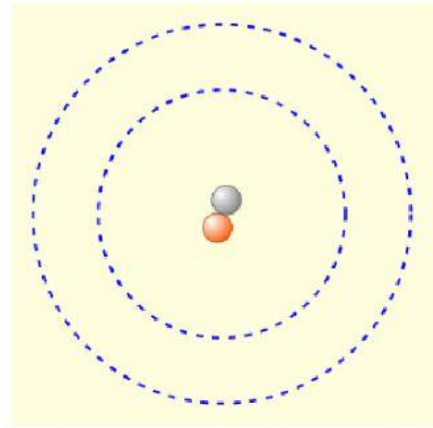
- A. 1
- B. 2
- C. 3
- D. 4



Berapakah nilai nomor massa diatas?

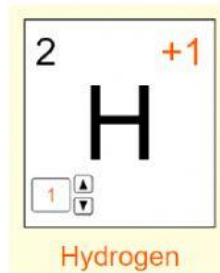
- A. 0
- B. 1
- C. 2
- D. 3

Berdasarkan gambar disamping,
Tentukan simbol atom yang tepat!

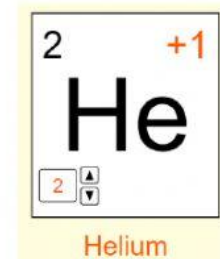


Tentukan jenis atom diatas:

A.



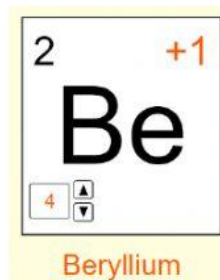
B.



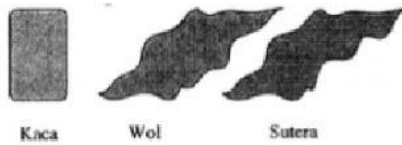
C.



D.



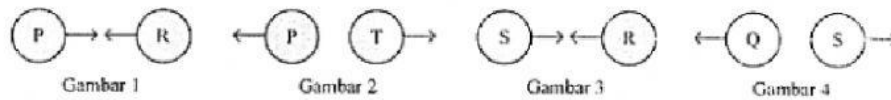
Perhatikan gambar berikut!



Batang kaca dapat memperoleh muatan listrik setelah dilakukan penggosokan dengan ...

- A. kain sutera, karena kaca menerima elektron dari kain sutera
- B. kain wol, karena kaca melepaskan elektron ke kain wol
- C. kain sutera, karena kaca melepaskan elektron ke kain sutera
- D. kain wol, karena kaca menerima elektron dari kain wol

Perhatikan gambar interaksi bola konduktor bermuatan di bawah ini!



Jika bola konduktor P bermuatan positif, maka gaya interaksi yang terjadi ketika bola P didekatkan bola S dan bola R didekatkan bola Q berturut-turut adalah ...

- A. P – S tarik menarik dan R – Q tarik menarik
- B. P – S tarik menarik dan R – Q tolak menolak
- C. P – S tolak menolak dan R – Q tarik menarik
- D. P – S tolak menolak dan P – Q tarik menarik