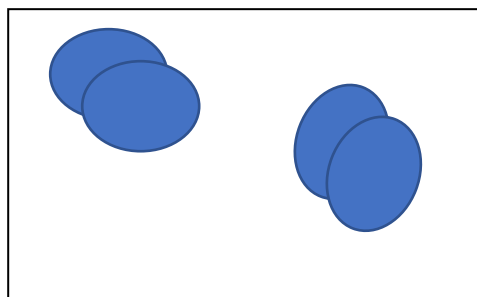


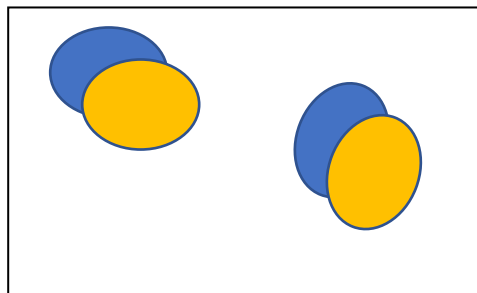
Elements compounds, mixtures and pure substances.

1. Atoms in this worksheet are represented by a different coloured circle.
2. Elements contain only one type of atom.
3. Compounds contain two or more different atoms linked in exactly the same way.
4. A pure substance contains only one element or compound.

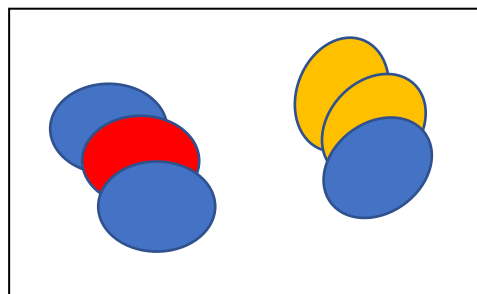
Eg. 1 The box on the right contains two particles that each have two blue coloured circles, in other words the same atoms. This is an element.



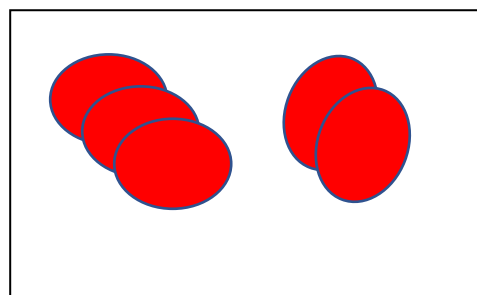
Eg. 2 The box on the right contains two particles that each have two coloured circles, in other words they are composed of two different atoms. This is a compound. It is also a pure substance because the box only contains one type of compound. In other words it is a pure compound.



Eg. 3 The box on the right contains two particles that each have different coloured circles, in other words different types of atoms. Since we have two different compounds the box contains a mixture of two compounds.



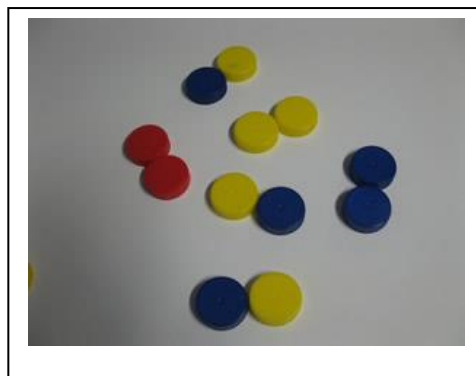
Eg. 4 The box on the right contains two particles that each have the same coloured circles, in other words the same atoms. This is an element.



Consider the following images. Answer the questions for each by circling correct response. Some questions may have more than one correct response.

1. What type of substance is this?
- a. an element
 - b. pure substance
 - c. pure compound
 - d. mixture of compound and elements
 - e. mixture of elements

Justify your choice



2. What type of substance is this?
- a. element
 - b. pure substance
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



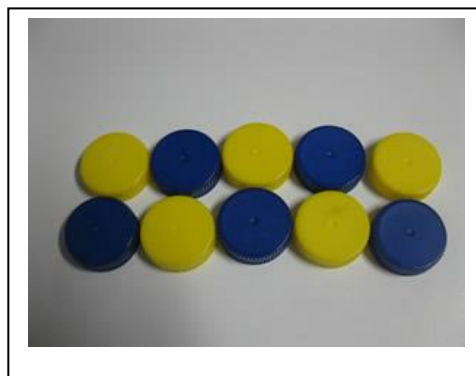
3. What type of substance is this?
- a. element
 - b. pure substance
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



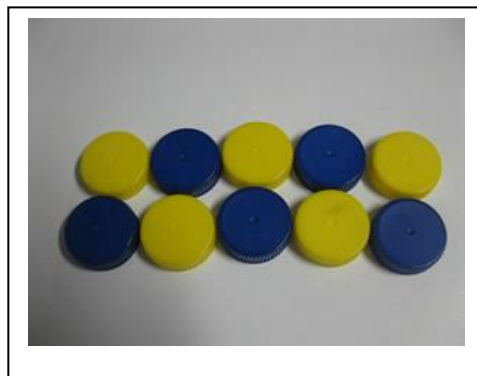
4. What type of substance is this?
- a. element
 - b. an impure substance of an element and compound
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



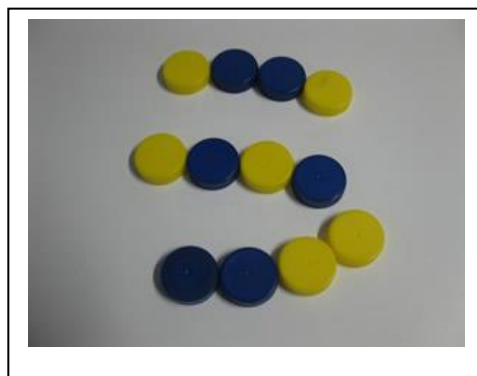
5. What type of substance is this?
- a. solid element
 - b. liquid compound
 - c. solid compound
 - d. mixture of compounds
 - e. mixture of gas elements

Justify your choice



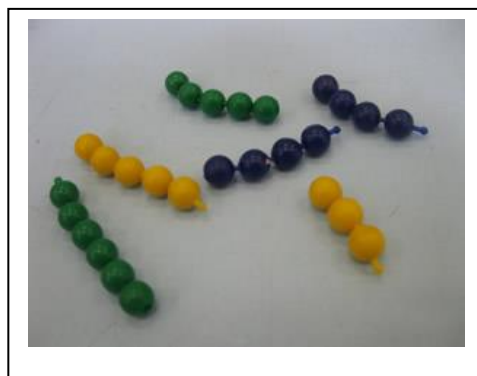
6. What type of substance is this?
- a. element
 - b. pure substance
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



7. What type of substance is this?
- a. element
 - b. pure substance
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



8. What type of substance is this?
- a. element
 - b. pure substance
 - c. compound
 - d. mixture of compounds
 - e. mixture of elements

Justify your choice



[Solution](#)