

Quiz this Friday

Purpose:

Learn to make cartoons of compounds that form during chemical change.

WARMUP copy :

In our cartoons we will start calling particles 'molecules'.

Molecule – what you would grab if your hand were small enough

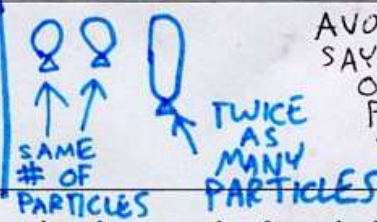
Atom – a single circle

Element – any molecule that is made of only one type of atom

Compound – any molecule that is made of two or more types of atoms.

Avogadro Notes

Avogadro's Number was named after he was dead.

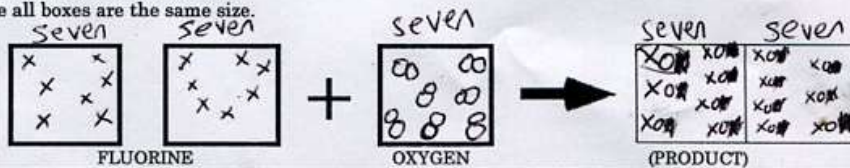


AVOGADRO'S HYPOTHESIS SAYS EQUAL VOLUMES OF GAS HAVE EQUAL PARTICLE QUANTITIES. THIS IS POWERFUL BECAUSE WE CAN NOW COUNT INVISIBLE ATOMS.

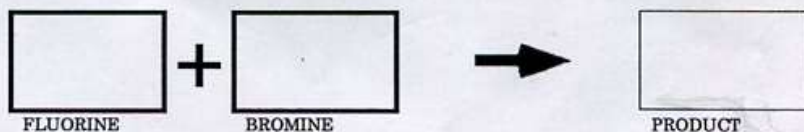
All gas follows these rules:

- Avogadro's Principle: Equal sized boxes have the same number of gas molecules.
- The Law of Conservation of Mass: Any atoms that exist before the arrow must be the same as the number of atoms after the arrow.
- Assume all boxes are the same size.

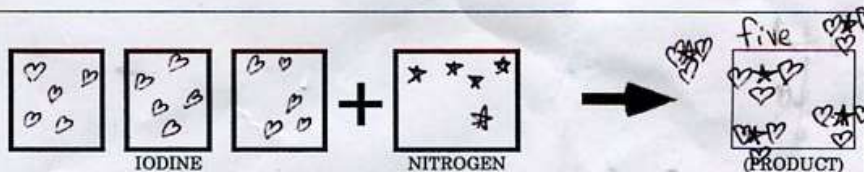
1



2



3



HOMWORK CHECK

&

GALLERY WALK

1) SIGN UP YOUR POD

**2) DISPLAY YOUR POD'S
WHITEBOARD AT THE BACK**

3) CHECK YOUR HW ANSWERS

**4) EXTRA CREDIT: IF YOU FIND A
MISTAKE, DON'T ERASE IT, DRAW A
LINE THROUGH IT, WRITE YOUR
CORRECTION, SIGN YOUR NAME**

Question: is the following change physical or chemical change?

NAME _____

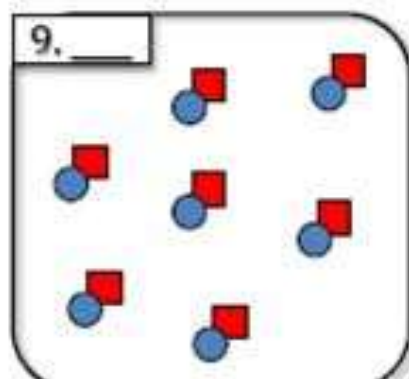
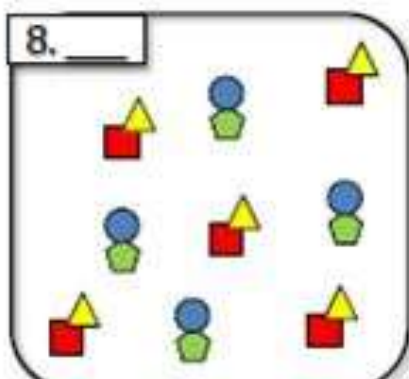
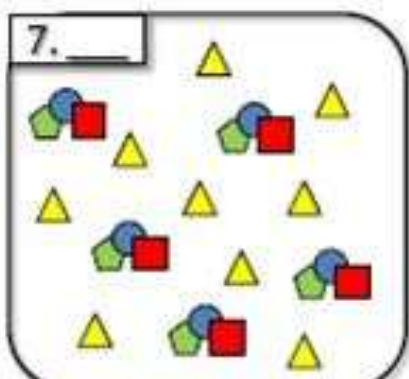
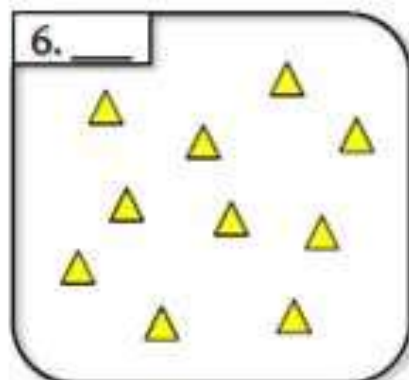
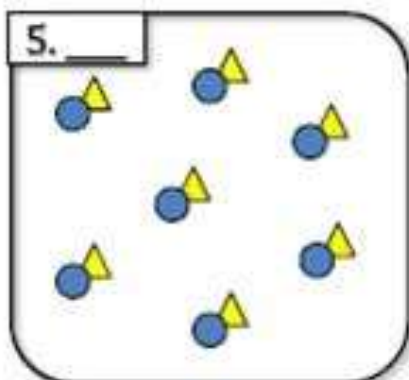
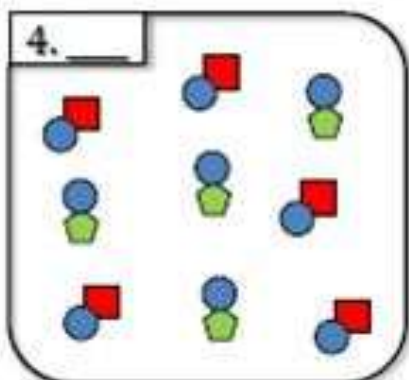
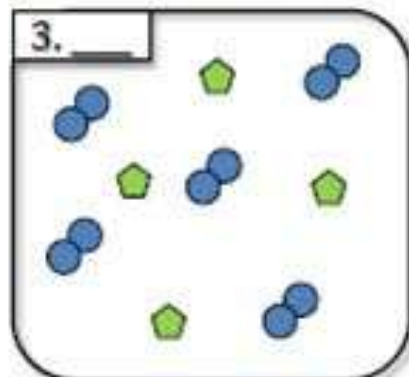
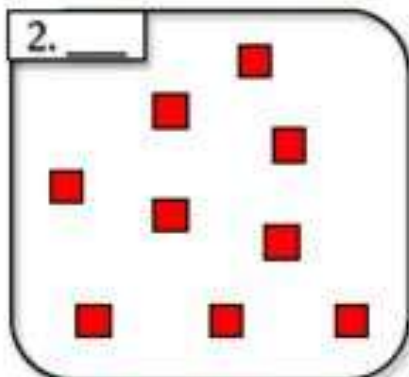
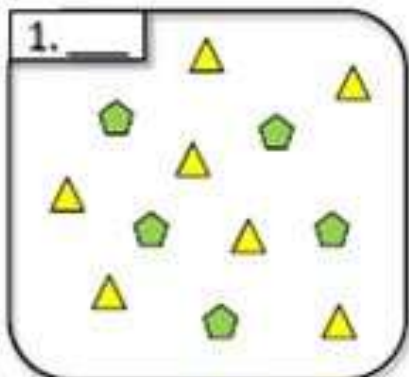
Elements, Compounds and Mixtures I

Each picture below is one of the following:

- ▶ ELEMENT (E)
- ▶ COMPOUND (C)
- ▶ MIXTURE of ELEMENTS (ME)
- ▶ MIXTURE of COMPOUNDS (MC)
- ▶ MIXTURE of ELEMENTS and COMPOUNDS (MEC)

Directions: Correctly label each picture for what it is representing.

Remember, each shape symbolizes an **element**. If two different elements are connected, then that object symbolizes a **compound**.



- ▶ ELEMENT (E)
- ▶ COMPOUND (C)
- ▶ MIXTURE of ELEMENTS (ME)

- ▶ MIXTURE of COMPOUNDS (MC)
- ▶ MIXTURE of ELEMENTS and COMPOUNDS (MEC)

