For this BONUS activity- You are to write a National Mole Day Postcard to Amedeo Avogadro*, from an atomic theorist that we have studied wishing him a Happy National Mole Day! And sharing a little tidbit about your contribution to atomic theory.

*Who was Avogadro?

Amedeo Avogadro was an Italian mathematical physicist who, through experimentation, proposed that the number of gas particles (molecules or atoms) in 1 Liter at standard temperature and pressure, was the same for all gases. This number of molecules was found to be **6.022×10^{23}** particles. This number is now called Avogadro's number and is the quantity found in a **MOLE of a substance**. So we can create an equality:

$$6.022 \times 10^{23} = 1 \text{ Mole}$$

His discovery was proven time and time again and later became a law called AVOGADRO's LAW and has since been found to apply to all particles through a relationship between average atomic mass and a mole of atoms. We will learn more about this relationship later in the year. This discovery profoundly changed our ability to control chemical reactions and is a fundamental principle used by chemists everyday!

National Mole Day now celebrates this discovery and its importance and is celebrated in chemistry classrooms around the world.

October 23, 2021

Happy National Mole Day!

Type here

Amedeo Avogadro
6.022 x 10^{23} Atomic Way
Everywhere, Earth 12.011