

National Mole Day Quiz

What is Avogadro's number?

- **Answer:** 6.022×10^{23}

What does a mole represent in chemistry?

- **Answer:** A mole represents 6.022×10^{23} particles, which can be atoms, molecules, ions, etc.

What is the formula for calculating the number of moles?

- **Answer:** Moles = Mass (g) / Molar Mass (g/mol)

Who is Avogadro?

- **Answer:** Amedeo Avogadro was an Italian scientist who contributed to the understanding of gases and proposed Avogadro's law.

What is the significance of the number 6.022 in Avogadro's number?

- **Answer:** It indicates the number of particles in one mole of a substance.

What unit is used to measure the amount of substance in chemistry?

- **Answer:** The mole (mol)

What is the molar mass of water (H₂O)?

- **Answer:** Approximately 18 g/mol

How many moles are in 36 grams of water?

- **Answer:** 2 moles (36 g / 18 g/mol)

What is a common activity to celebrate Mole Day?

- **Answer:** Conducting chemistry experiments or holding themed parties.

When did National Mole Day first start being celebrated?

- **Answer:** In 1991