

You are conducting a study on the effects of carrot consumption on blood pressure. You will be giving carrots to participants in your study and monitoring their blood pressure over several months

B the amount of carrots consumed by the participant

You have an isotope that has a mass number of 195 and contains 116 neutrons. What isotope is this?

C Gold 79

Determine which ion has the ground state electron configuration of $1s^2$,

$2s$

2

$2p$

6

$3s$

2

$3p$

6

D Ca^{2+}

Which of the following substances contain ionic bonds?

Li_2O

$CaBr_2$

What is the name of the compound N ?

O

2

3

dinitrogen dioxide

Which of the following species would you expect form intermolecular hydrogen bonds

HF

In an experiment you calculate that 6.50 gram of liquid has a volume of 2.50 ml

B. Liquid X

What is the mass of a 160 lb person using appropriate units?

72.73 kg

You have purchased 0.5 gallons of a chemical to peer review an experimental procedure

Correct answer is 1895 ml

At a temperature of 14 degrees c

X as having hydrogen bonding

Intermolecular forces holding molecules together noting that hydrogen bonding procedures are a higher boiling point or that electrostatic bonding

Non polar covalent

compounds S

8

0

2

Match the following compounds with their molecular shapes

Trigonal planar PF₃

Linear CO₂

Trigonal pyramidal

BF₃ Tetrahedral SF₄

How many electrons

Iron(II) ion 24

Oxide 10

Oxygen 8

Lithium Ion 2

3

An atom of Mg reacts with an atom of O

Mg $2+$

and O

$2-$

Gains electrons

In a molecule that contains a polar covalent bond, electrons in this bond are

Shared unequally

The bond between two nitrogen atoms would be described as an:

Triple covalent bond

You have noticed that there has been a large amount of raccoons invading your garden

Develop a hypothesis and an experiment

With a control group and predict the results of the experiment

An experiment is conducted to study the effect of spray water on the number of apples produced from the apple tree

#of apples produced is the dependent variable

A molecule forms from Na and F describe this process in response to electron behavior charges and bond properties

You have a bracelet

7.87 g/cm

3

There are several stable isotopes of Mg as well as several ions of Mg possible

12 protons

An ion has 4 neutrons 3 protons and 2 electrons what is the charge of the ion

+1

What is the mass number of a silicon isotope with 15 neutrons