

Questions of the Day Set #2

QOD  
#14

What is the name of the element whose symbol is S?

- (A) silicon (B) sulfur (C) sodium (D) selenium

QOD  
#16

How many  $\text{dm}^3$  are equal to  $1.75 \times 10^4 \text{ cm}^3$ ?

- (A)  $1.75 \times 10^3$  (B)  $1.75 \times 10^5$   
(C)  $1.75 \times 10^1$  (D)  $1.75 \times 10^7$

Which set of elements contains a metalloid?

QOD  
#18

- (A) Ba, Ag, Sn, Xe (B) K, Mn, As, Ar  
(C) Li, Mg, Ca, Kr (D) Fr, F, O, Rn

The phase change represented by the equation  $\text{I}_2 (\text{s}) \rightarrow \text{I}_2 (\text{g})$  is called

- (A) condensation (B) sublimation  
(C) melting (D) evaporation

QOD #22

What are the number of protons, neutrons, & electrons in a neutral atom of phosphorus-30?

- (A) 15  $\text{p}^+$ , 15  $\text{n}^0$ , 30  $\text{e}^-$  (B) 15  $\text{p}^+$ , 30  $\text{n}^0$ , 15  $\text{e}^-$   
(C) 15  $\text{p}^+$ , 15  $\text{n}^0$ , 15  $\text{e}^-$  (D) 30  $\text{p}^+$ , 15  $\text{n}^0$ , 30  $\text{e}^-$

QOD  
#24

A sample of sulfur contains  $3.01 \times 10^{23}$  atoms.

How many moles of sulfur are in the sample?



1.80 x 10<sup>47</sup>



0.500



2.00



3.01