

- Code A
- Which of the following is the largest unit?  
a) grams      b) milligrams      c) kilograms      e) picograms
- Which of the following is correct?  
a)  $2.2 \text{ kg} = 1 \text{ lb}$       b)  $2.2 \text{ lb} = 1 \text{ kg}$
- A nickel has a mass of 5.0 grams. What would that be in picograms?  
a)  $5.0 \times 10^{-12}$       b)  $5.0 \times 10^{12}$       c)  $5.0 \times 10^9$       d)  $5.0 \times 10^{-9}$
- $2.5 \times 10^4 \mu\text{g} = 2.5 \times 10^x \text{ pg}$  'x' =  
a) 8      b) 10      c) -8      d) -10      e) 12
- Absolute zero is  
a)  $0^\circ\text{C}$       b)  $0^\circ\text{F}$       c)  $-273^\circ\text{C}$       d)  $-273^\circ\text{F}$       e)  $-273 \text{ K}$
- $23^\circ\text{C} = \underline{\hspace{1cm}} \text{K}$   
a) 296      b) 250      c) -296      d) -250
- A research freezer is  $-70^\circ\text{C}$ . What is that on the Fahrenheit scale?  
a)  $-21^\circ\text{F}$       b)  $-56^\circ\text{F}$       c)  $-94^\circ\text{F}$       d)  $-158^\circ\text{F}$
- What is the mass of 24 mL of a substance with a specific gravity of 6.0?  
a) 4 g      b) 144 g      c) 0.25 g
- An irregular object weighed 27 grams. When placed in a graduated cylinder, the water level went from 15 mL to 18 mL. What is the density of the object?  
a) 1 g/mL      b) 1.2 g/mL      c) 9 g/mL      d) 0.17 g/ml      e) 54 g/mL