

## A little quiz on radiation

Choose the letter(s) of the best choice. Answers may be used more than once. Some questions have more than one answer. Remember that visible light is a type of radiation.

Answer choices:      A.    Alpha                                      L.    Visible Light  
                             B.    Beta     N.    None of the above  
                             G.    Gamma

1.    Which type(s) of radiation have a negative charge?  
\_\_\_\_\_
2.    Which type(s) of radiation have no charge?  
\_\_\_\_\_
3.    Which type(s) of radiation have no mass, are pure energy, and travel in waves?  
\_\_\_\_\_
4.    Which type(s) of radiation move the slowest?  
\_\_\_\_\_
5.    Which type(s) of radiation move at the speed of light?  
\_\_\_\_\_
6.    Which type(s) of radiation becomes Helium after it stops moving and picks up two electrons?  
\_\_\_\_\_
7.    Which type(s) of radiation would normally be stopped by a cubic foot of distilled water (pure water)?  
\_\_\_\_\_
8.    Which type(s) of radiation can make ions in human flesh?  
\_\_\_\_\_
9.    Which type(s) of radiation is given off as Potassium-40 decays to Calcium-40?  
\_\_\_\_\_
10.   Which type(s) of ionizing radiation is given off by radioactive elements and does NOT result in a different element being formed?  
\_\_\_\_\_
11.   Which type(s) of radiation is stopped by a piece of plastic wrap (saran wrap) or cellophane?  
\_\_\_\_\_
12.   Which type(s) of radiation will make you radioactive if they hit you?  
\_\_\_\_\_
13.   Which type(s) of radiation have the potential to cause cancer (by possibly damaging DNA) in living organisms?  
\_\_\_\_\_