STEM 101
Powered by THE STEM ACADEMY

Flight Level 2 Quiz – Answer Key

1) **This type of variable is the variable that is purposely changed**

   Select one:
   a) Controlled variable
   b) Dependent variable
   c) Independent variable

2) **This type of variable is the variable being observed**

   Select one:
   a) Controlled variable
   b) Dependent variable
   c) Independent variable

3) **This type of variable is not changed during the experiment**

   Select one:
   a) Controlled variable
   b) Dependent variable
   c) Independent variable

4) **Kids who drink milk everyday typically have stronger, healthier bones. In this statement, what is the independent variable?**

   Select one:
   a) Milk consumption
   b) Stronger, healthier bones
   c) There isn't an independent variable present

5) **Kids who drink milk everyday typically have stronger, healthier bones. In this statement, what is the dependent variable?**

   Select one:
   a) Milk consumption
   b) Stronger, healthier bones
   c) There isn't a dependent variable present

6) **When defining the problem for the Paper or Straw Rocket activity, what should you designate as the independent variable?**

   Select one:
   a) construction and materials used to make rocket
   b) how far the rocket flies
   c) what the rocket looks like
   d) how fast the rocket flies

7) **When defining the problem for the Paper or Straw Rocket activity, what should you designate as the dependent variable?**

Select one:
a) construction and materials used to make rocket
b) <mark>how far the rocket flies</mark>
c) what the rocket looks like
d) how fast the rocket flies

8) **When using the bike pump to charge the launch system, what unit of measure is used?**

Select one:
a) <mark>PSI (pounds per square inch)</mark>
b) G-force
c) mph (miles per hour)
d) mph (micrograms of pressure per hour)

9) **Engineering design depends on good:**

Select one:
a) Timing
b) <mark>Documentation</mark>
c) Luck
d) None of the above

10) **Is it a good idea to change more than one variable at a time?**

Select one:
a) True
b) <mark>False</mark>