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GVC 8.0 Science vs Engineering

A public quiz for schools

Play

Challenge

Scientific Method #scientificmethod engineering design process

Copy and share this playable link

<https://play.kahoot.it/#/?quizId=a1701a97-05ec-4031-9c5e-59daa2b93dc6>

Questions (30)

Q1: The first step in the scientific method is....

- gather evidence
 - create a conclusion
 - create a hypothesis
 - create a testable question
-

Q2: Scientists share their findings to....

- learn from each other
 - keep their work secret
 - compete with each other
 - so they don't have to repeat it
-

Q3: When we gather information using the 5 senses this is called....

(/I/#) ▲ stating a hypothesis

◆ forming conclusions

● making observations

■ performing experiments

Q4: A controlled experiment...

▲ only tests one variable

◆ tests multiple variables

● does not add any variables to the tests

■ Usually only includes one trial

Q5: The **Independent Variable** is...

▲ the variable that you plan to change.

◆ the variable that you measure.

● a group of variables that remain the same.

■ a comparison group


Q6: The **Dependent Variable** is...

▲ a group of variables that remain the same.

◆ the variable that you measure.


● the variable that you plan to change.

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 a group used as a comparison

Q7: The **Control** is...

 a variable that stays the same


 a variable that you are measuring

 a variable that you are testing.


 a variable that changes during the experiment


Q8: The # of potatoes grown depends on the minerals in the soil.

What is the Independent Variable?


 number of potatoes

 how much sun the potatoes get

 mineral content in soil

 how much water the potatoes get

Q9: How does the type of surface affect the braking distance of a vehicle? **What is a Control?**

 type of surface


 vehicle

 braking distance

 type of fuel


Q10: How does the amount of caffeine affect blood pressure? **What**

(///#) is the dependent variable?

 amount of caffeine

 blood pressure

Q11: Interpreting data: In the graph below what is the 2nd most popular sport in the school

 other

 soccer

 basketball

 softball

Q12: How many more people like cats than goldfish?

 2

 5

 8

 4

Q13: According to the pie chart, which pet is the most common?


 dogs


 cats


 fish

Q14: In which part of the Engineering Design Process would you follow your plan to make something?

 Ask

 create


 Imagine

 improve

Q15: In which step of the Engineering Design Process would you make a diagram?

 ask

 plan

 imagine

 create

Q16: In which step of the Engineering Design Process would you make your design even better?

 imagine

 plan


 create

 improve

Q17: In which part of the Engineering Design Process would you

brainstorm ideas:

(/I/#)

 create


 imagine

 plan

 ask

Q18: How does climate at which apples are grown affect their size/taste? **Quantitative data collected?**

 size

 climate


 taste

 type of apple

Q19: The ability whether an object floats/sinks depends on its density. **Qualitative data collected?**

 density

 amount of water

 object sink or float

Q20: A guess for what has been observed. **Which word does this definition apply to?**


 Conclusion

 Observation


(/I/#)  Inference


 Results

Q21: Observations are any information you collect using your...


 notes

 textbook


 internet


 senses

Q22: Observations that can be measured in **numbers** are...


 qualitative


 inferences

 quantitative

 variables

Q23: An observation that describes the properties of something

 qualitative

 quantitative

 inference

 evidence

(///#)

Q24: The scissors are very sharp is a

 Quantitative observation

 Qualitative observation

Q25: The boy was 6' 8" tall is a

 Qualitative observation

 Quantitative observation

Q26: The train was traveling 125 mph is a

 Quantitative observation

 Qualitative observation

Q27: The dog barked for an hour is a(n)

 Observation

 Inference

Q28: The dog is barking because a squirrel ran by is a(n)

 Inference

 Observation

(//#)

Q29: A student is sitting in the main office waiting to see the vice principal is a(n)

 Inference

 Observation

Q30: The student has to see the Mr. Showalter because he was talking too much in class is a(n)

 Observation

 Inference
