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GVC 8.0 Science vs Engineering

A public quiz for schools

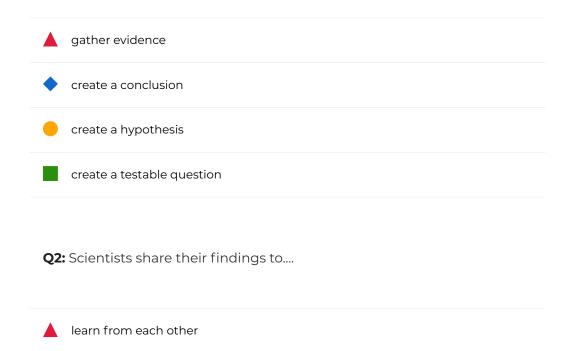
Play Challenge

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....

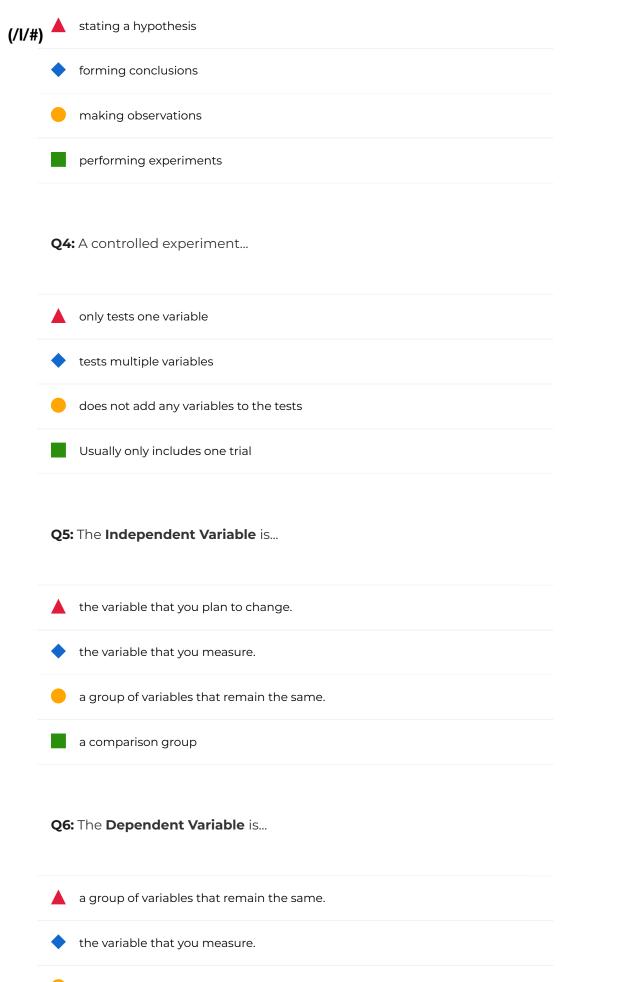


keep their work secret

ocompete with each other

so they don't have to repeat it

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



the variable that you plan to change.

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
٠	vehicle
•	braking distance
	type of fuel

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

(/I/#) is the dependent variable?

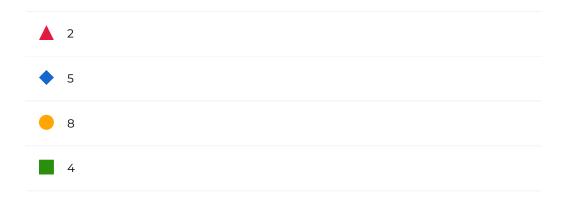
amount of caffeine

blood pressure

Q11: Interpretting 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?



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

	dogs			
٠	cats			
•	fish			

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

Ask Ask
◆ create
e Imagine
improve
Q15: In which step of the Engineering Design Process would you make a diagram?
ask
◆ plan
e imagine
create
Q16: In which step of the Engineering Design Process would you

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

🔺 imag	gine	
🔶 plan		
ereate	te	
impro	rove	

	prainstorm ideas?
(/I/#)	

create
imagine
e plan
ask

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

	size
•	climate
•	taste
	type of apple

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

	density
♦ a	amount of water
• •	object sink or float

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

Conclusion

Observation



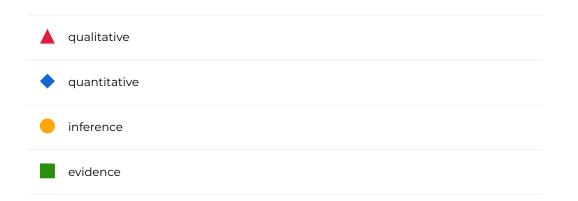
Q21: Observations are any information you collect using your...

	notes
•	textbook
•	internet
	senses

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

dualitative	
inferences	
equantitative	
variables	

Q23: An observation that describes the properties of something



(/I/#) 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

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

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