

Study Guide – Introduction to Arguments and Logical Reasoning

LOGICAL REASONING TYPES

Instructions: Read the following sentences below and using the space provided tell me if the argument is **DEDUCTIVE** or **INDUCTIVE**

1. _____ "In the past three years, I feel the winters have been colder than average. Therefore, next winter will likely be colder than average."
2. _____ "If the law of gravity is true, then an object dropped from a height will fall. I dropped a rock, and it fell. Therefore, the law of gravity must be true."
3. _____ "Every time I've seen my neighbor's dog, it barks at me. So, the next time I see the dog, it will bark at me."
4. _____ "All automobiles require fuel to operate. My van is an automobile. Therefore, my van requires fuel to operate."
5. _____ "The sun has risen in the east every day for millions of years. Therefore, it will rise in the east tomorrow."
6. _____ "All mammals have lungs. Whales are mammals. Therefore, whales have lungs."

RHETORICAL ARGUMENT STYLES

Instructions: Read the following sentences below and using the space provided tell me if the argument is either **ETHOS** (*argument from character or reputation*), **LOGOS** (*argument of logic*) or **PATHOS** (*argument from emotions*).

7. _____ "If we don't take action on climate change now, future generations will suffer from devastating consequences like famine, floods, and extreme weather events."
8. _____ "Statistics show that 9 out of 10 dentists recommend this toothpaste for healthier teeth."
9. _____ "Think of the joy you will feel when you surprise your loved ones with this gift—it's not just about the item, it's about making memories that last a lifetime."
10. _____ "Our veteran coach has led this team to five championships. He knows what it takes to win, and we should follow his advice on strategy."
11. _____ "Our community leader has always acted with integrity and has consistently worked for the betterment of everyone. You can trust her judgment on this issue."

Name _____

Date _____

Class Sec. _____

12. _____ "Supported by Scientist, 75% of studies in the last 10 years indicate that if we continue to waste water at this rate, we will run out of clean drinking water in 50 years."
13. _____ "Imagine the heartbreak of watching your child struggle without access to the education they deserve. By donating just a small amount, you can change a life and give hope to those in need."

PROPOSITIONAL STATEMENTS

14. Write a **Conditional Statement**, then label the antecedent and consequent.

15. Write a **Conditional Syllogism**, then label the antecedents and consequents.

16. Write a **Categorical Statement**, then tell me it's universal-affirmative, universal-negative, particular-affirmative, or particular-negative. "UA, UN, PA, or PN".

17. Write a **Categorical Syllogism** then tell me whether each of its sentences are universal-affirmative, universal-negative, particular-affirmative, or particular-negative. You can use "UA, UN, PA, or PN".