

Name _____ Per _____ Date _____

Testable Question and Hypothesis Writing Guided Practice

For each topic below, write a **TESTABLE QUESTION** using the “How does _____ affect _____?” format. Remember to first identify the manipulated (mv) and responding (rv) variables before using the **testable question** format.

When reviewing the topic... determine the manipulated and the responding variables before developing a testable question. Below are two examples... keep in mind, all of the topics in this practice can be turned into ‘Testable Questions’.

Example 1:

Topic: "Rainy winters"

Possible variables

Manipulated variables: *time of year, temperature, or amount of sunlight*

Responding variables: *rainfall levels (the focus of the topic is rainy winters)*

Possible questions: "How does time of year affect rainfall levels?"

"How does temperature affect rainfall levels?"

"How does amount of sunlight affect rainfall levels?"

Example 2:

Topic: "Seahawks"

Possible variables

Manipulated variable: *month, rain, temperature*

Responding variable: *win rate or punt distance*

Possible questions: "How does the month affect win rate?"

"How does rain affect quarterback pass percentage affect win rate?"

"How does air temperature affect punt distance?"

For practice write a testable question for each topic. Be very specific and use the format “How does _____ affect _____?” When creating a question you will be narrowing down the topic to “testable variables”. Think about what variables you will be testing before writing the question. Yes! This practice is meant to be hard... you will need to apply your critical thinking skills 😊

Earthquakes can cause destruction

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Forests are getting cut down

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Wildlife in the neighborhood

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Mold growing in your home

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Air Pollution

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Rainy weather

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

State Dams

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Rain and a person's mood

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Fresh water pollution from littering

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Salmon population

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Whale population

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

Health of the wetlands

Manipulated Variable: _____ Responding Variable: _____

Testable Question: _____

Hypothesis: _____

