

LESSON: Identifying Variables

TASK: Read the information below about the investigation that has been conducted. Answer the questions below by completing the Investigation Design Diagram (IDD).

Ms. Contona is curious about how sugar affects a student’s ability to pay attention in class. To test her hypothesis, she designed the following investigation.

Ms. Contona asked Daniel to eat a healthy breakfast and lunch each day for 5 days. On day 1 Daniel had no sugar after lunch. On day 2 Daniel had 5 skittles after lunch. On day 3 Daniel had 10 skittles after lunch. On day 4 Daniel had 15 skittles after lunch. On day 5 Daniel had 20 skittles after lunch.

Each day during period 7, Ms. Contona observed him to see how well he payed attention in class. Each time he was off task, she recorded a tally mark.

In this investigation, what is Ms. Contona CHANGING? What is her INDEPENDENT VARIABLE?

What are the LEVELS of her INDEPENDENT VARIABLE?

In this investigation, what is Ms. Contona MEASURING? What is her DEPENDENT VARIABLE?

In this investigation, what is Ms. Contona KEEPING THE SAME? What are her CONSTANT VARIABLES?

How many times did she repeat this investigation? What is the number of REPEATED TRIALS?

What is the TESTABLE QUESTION she is trying to answer? What is the effect of IV on DV?

Investigation Design Diagram (IDD):

Question:				
Independent Variable:				
Levels				
Trials				
Dependent Variable:				
Constant/Controlled Variables:				