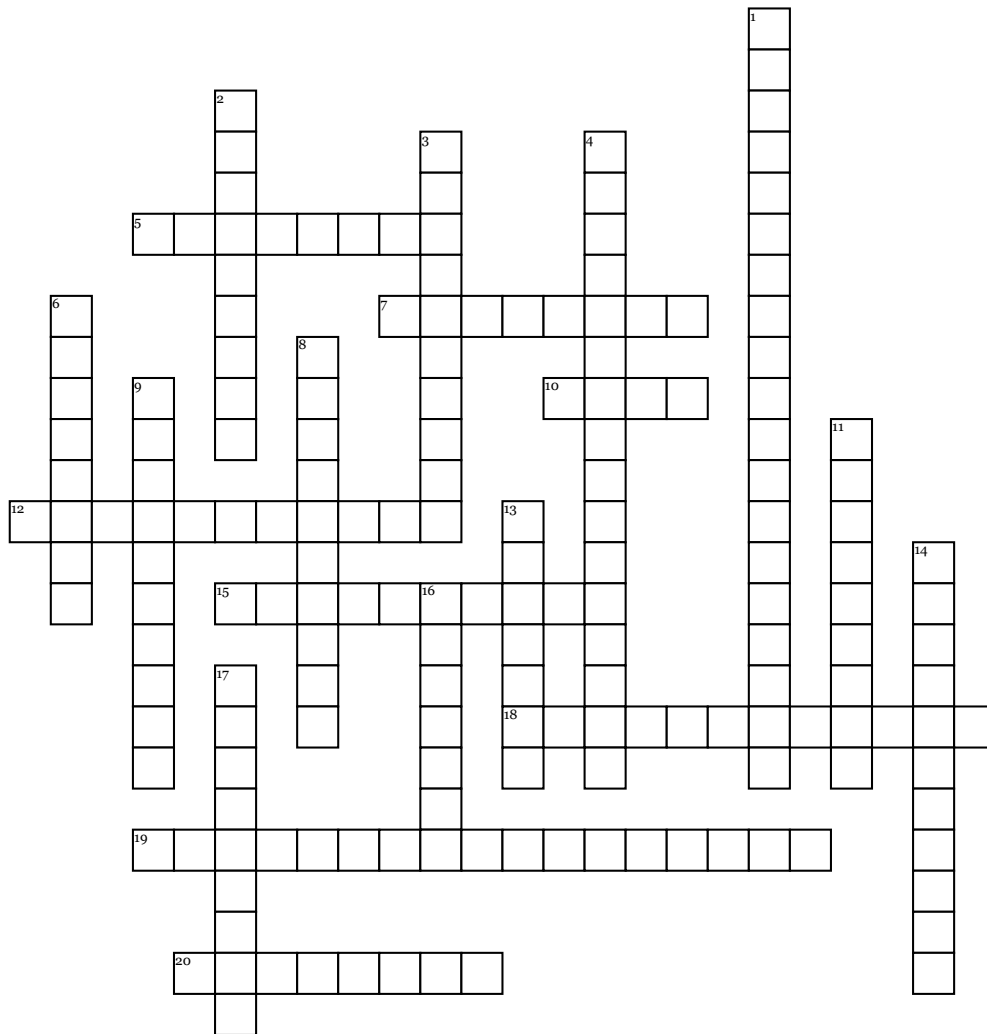


Name: \_\_\_\_\_

# Scientific Method Crossword



## Across

- 5.** Referred to as the scientific problem that is to be solved.  
**7.** Grouping things together based on specific characteristics.  
**10.** Information, measurements, and pictures gathered from observations that are used to help answer a scientific question.  
**12.** The data collected by using the five senses or measuring devices to learn about objects and events.  
**15.** A statement and/or hypothesis made about the future outcome of an experiment based on past experiences, prior knowledge, observations, or research.  
**18.** The group or subject that is used as a standard comparison in an experiment. (two words - no space)  
**19.** Incorrect data in an experiment that may result from a variety of causes (human, procedure, equipment). (two words - no space)

- 20.** To interpret the data using charts, tables, and graphs. To determine relationships between variables and make inference statements based upon the charts, tables, and graphs. An analysis leads to a better understanding of the whole. A thorough analysis will often provide the information to determine if the hypothesis is supported or not.

## Down

- 1.** A factor that can be changed or manipulated in an experiment by the scientist; "you change it" variable. (two words - no space)  
**2.** A logical explanation, an analysis statement, or conclusion based on observations and/or facts.  
**3.** A summary of your experiment. The conclusion restates the purpose (or the question) of the experiment and summarizes the results.  
**4.** Thinking that uses specific sets of skills to carefully analyze problems step-by-step. (two words - no space)  
**6.** Any factor, trait, or condition that can exist in differing amounts or types. Something that can affect a system being examined, and is, therefore, a factor that may change in an experiment.

- 8.** Your best educated guess (based on experience, prior knowledge, and research) to the scientific question being asked.

- 9.** a test using observations and controlled variables to discover answers to questions, and/or to check a hypothesis.  
**11.** An ordered series of steps followed to help answer a scientific question.  
**13.** The study of the physical and natural world through observations and experiments.  
**14.** After completing the investigation, it is tie to communicate those findings to the scientific community: reports, oral presentations, and publications.  
**16.** To examine the different and/or similar characteristics of things or events.  
**17.** The list of instruments (beakers, scoops, test tubes, etc.) that are needed to conduct the experiment.

## Word Bank

procedure  
independentvariable  
criticalthinking  
prediction  
observation

controlgroup  
inference  
data  
question  
variable

conclusion  
analysis  
communicate  
hypothesis  
science

equipment  
experiment  
classify  
experimentalerror  
compare