Võcabulary A-Z

The Scientific Method Vocabulary

1. **conclusion** [Noun] con•clu•sion

Sentence: When writing, you can use the conclusion to summarize what you've already written, since it comes at the end.

Definition: the end or last part of an event, process, or experiment

2. data [Noun] da•ta

Sentence: The researchers compiled a conclusive report based on their review of the data.

Definition: facts and information, such as measurements or statistics, used to analyze or plan

- hypothesis [Noun] hy•poth•e•sis Sentence: The scientist's hypothesis turned out to be false. Definition: a proposed explanation that is based on evidence but has not been proven
- 4. **investigation** [Noun] in•vest•i•ga•tion Sentence: A science investigation is like an experiment. Definition: a detailed examination in order to determine facts
- materials [Noun] ma•ter•i•als Sentence: Raw materials, including iron, nickel, and chromium, are combined to make steel. Definition: the items needed for an activity
- 6. **observation** [Noun] ob•ser•va•tion Sentence: From our observation of the sharks, we developed many theories about their behavior.

Definition: the act or instance of carefully watching and recording something as it happens

Võcabulary A-Z

The Scientific Method Vocabulary

7. procedure [Noun] pro•ce•dure

Sentence: Every surgeon is trained to follow a certain procedure before beginning an operation.

Definition: a set or series of actions that are followed to complete a specific task

8. scientific method [Noun] sci•en•ti•fic meth•od

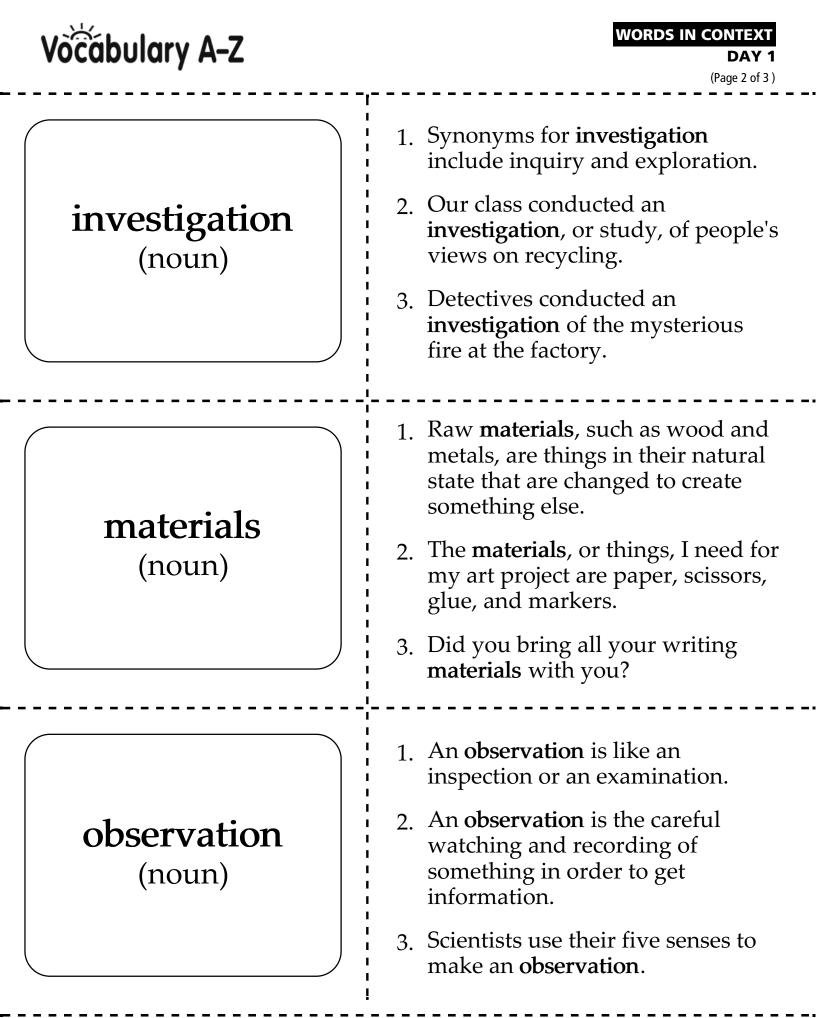
Sentence: The scientific method is a series of steps for testing scientific theories.

Definition: the process scientists use to test theories and ideas by performing experiments and observation

9. variable [Noun] var•i•a•ble

Sentence: A variable is something that may change. Definition: something capable of changing

Võcabulary A-Z	WORDS IN CONTEXT DAY 1 (Page 1 of 3)
conclusion (noun)	 The conclusion, not the introduction, comes at the end of a story. The conclusion of a scientific experiment is what you learn, or conclude, from it. I didn't expect the conclusion, or close, of the story to be so sad. Data is factual information used to analyze, plan, or draw conclusions.
(noun)	 2. Data often comes in the form of measurements or statistics. 3. The scientists collected important data from the experiment.
hypothesis (noun)	 A hypothesis is a working theory that has yet to be proven. A hypothesis is formulated with limited evidence and is the basis for further investigation. Her initial hypothesis that it is always hot in Arizona turned out to be false.



Võĉábulary A-Z	WORDS IN CONTEXT DAY 1 (Page 3 of 3)
procedure (noun)	 Each set of actions in the procedure must be followed exactly to complete the task correctly. The team practiced the procedure until the routine flowed smoothly. The system was set in place so that everyone would follow the same procedure.
scientific method (noun)	 The scientific method is an organized way of figuring something out. The scientific method involves formulating a theory based on an observation or idea. Part of the scientific method is making, testing, and revising predictions based on a hypothesis, or theory.
variable (noun)	 A variable is changeable or modifiable. The weather is a variable you must consider when planning an outdoor event. The opposite of a variable is a constant.



Name: _____

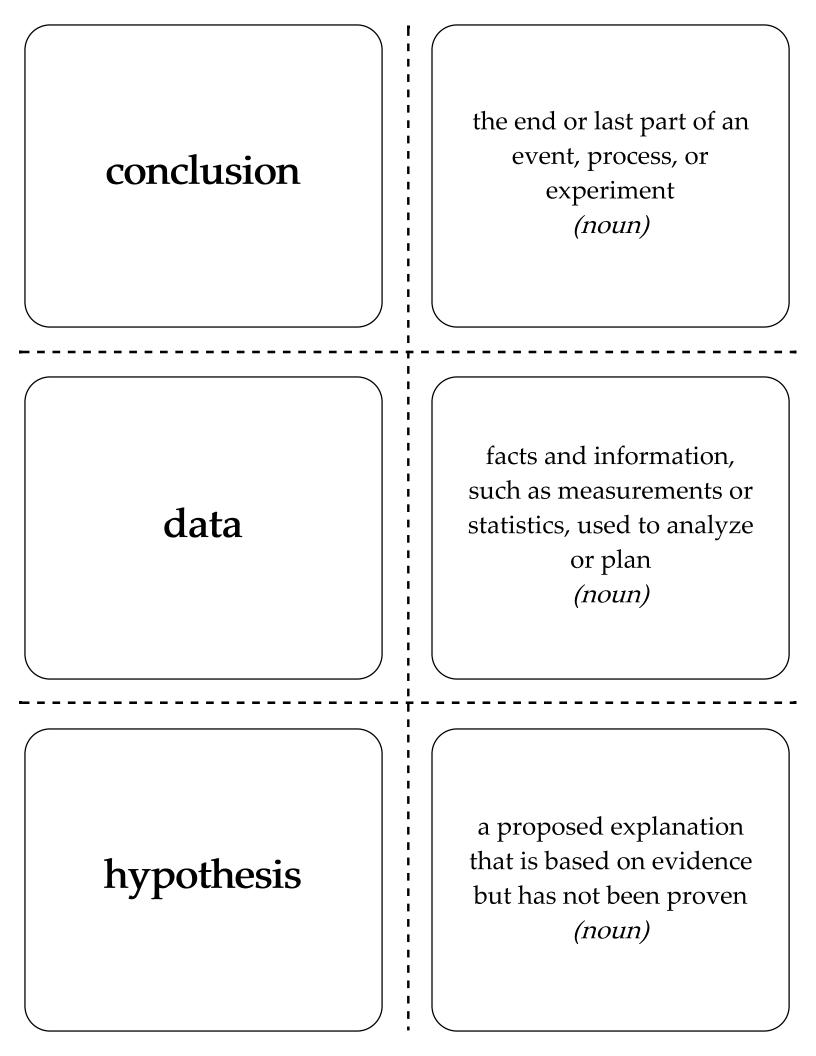
INSTRUCTIONS: Record a vocabulary word in each word box. Then write a synonym and an antonym, draw a picture, and define each word. Use each word in a sentence on the back of this worksheet.

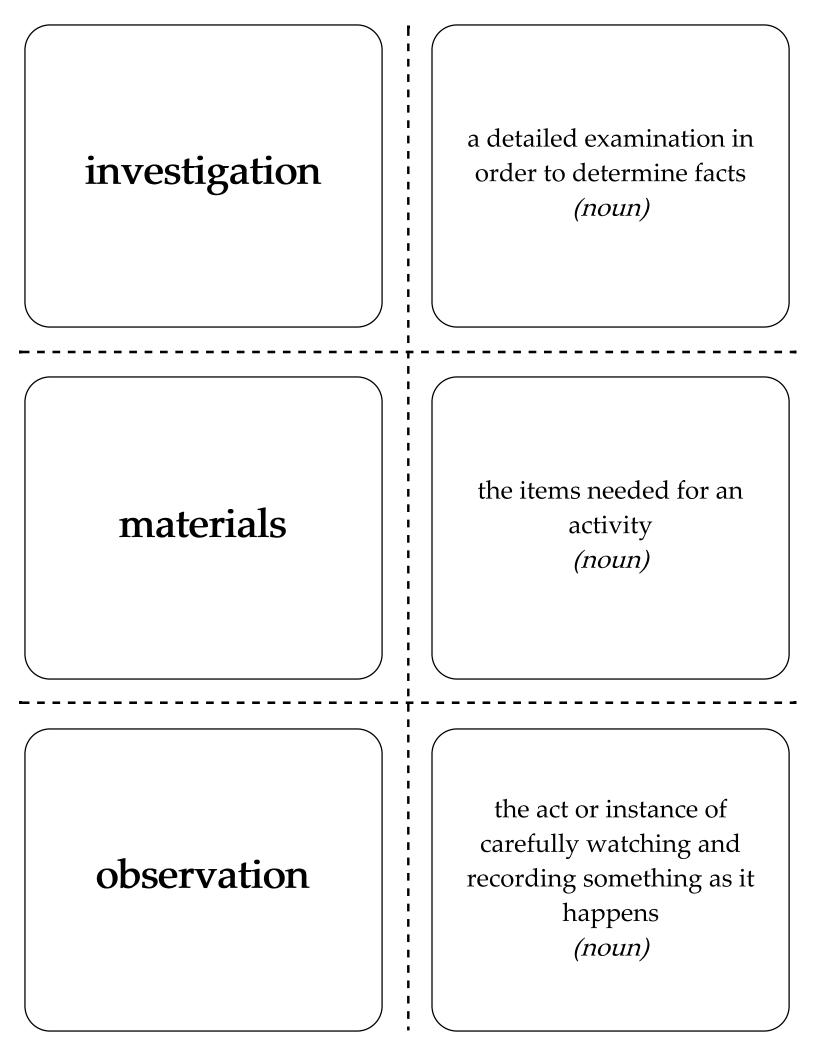
Word	Picture
Synonym	
Antonym	

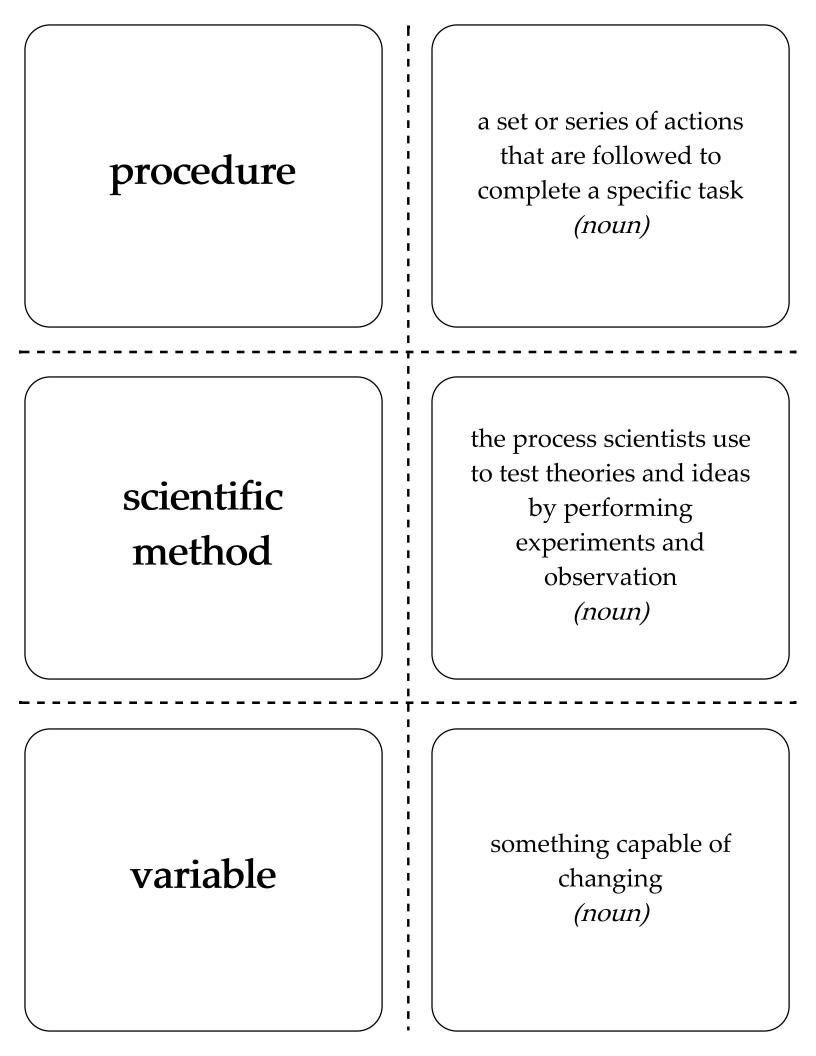
Definition

Word	Picture
Synonym	
Antonym	

Definition









Name: _____

An **analogy** shows a relationship between two sets of words. The words in the first pair must have the same relationship as the words in the second pair. To complete an analogy with a missing word, you must first discover the relationship between the completed pair. (Example: *Cat is to meow as dog is to bark.*)

disclose conserve recording beginning rely prove calculate hypothesis utensils

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

1. Hypothesis is to *theory* ...as... confirm is to ______.

2. Investigation is to *investigate* ...as... calculation is to ______.

3. Conclusion is to *end* ...as... introduction is to _____.

4. Data is to *information* ...as... theory is to ______.



Name: _____

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conserve rely calculate disclose hypothesis prove recording beginning utensils

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

5. Scientific method is to *testing* ...as... scientific notation is to

6. Materials are to *supplies* ...as... tools are to ______.

- 7. Observation is to observe ...as... conservation is to ______.
- 8. Procedure is to *proceed* ...as... disclosure is to _____.



Name: ____

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calculate conserve beginning utensils rely recording disclose prove hypothesis

INSTRUCTIONS: Determine the relationship between the first pair of words. Then use the words in the word box to complete the second pair of words.

9. Variable is to vary ...as... reliable is to _____.

Name: _____

investigation variable hypothesis procedure materials observation conclusion data scientific method

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

1. The scientist's ______ turned out to be false.

- 2. A science ______ is like an experiment.
- 3. The researchers compiled a conclusive report based on their review of the
- 4. When writing, you can use the ______ to summarize what you've already written, since it comes at the end.

Name: _____

procedure	observation	conclusion	hypothesis			
materials	investigation	scientific igation data method				
variable						

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

- 5. Raw ______, including iron, nickel, and chromium, are combined to make steel.
- 6. From our ______ of the sharks, we developed many theories about their behavior.
- 7. The _______ is a series of steps for testing scientific theories.
- 8. Every surgeon is trained to follow a certain ______ before beginning an operation.



Name: ____

investigation observation materials scientific method conclusion variable procedure data hypothesis

INSTRUCTIONS: Use the vocabulary words in the word box above to complete the sentences below.

9. A ________ is something that may change.

Name:	
INSTRUCTIONS: Use what you know about the vocabulary words to complete the fol	lowing sentences.
1. At the conclusion of my day, I turn off the lights and	
2. A hypothesis is	
3. You might use a procedure when	
4. To make a poster, the materials you'll need are	
5. You might conduct an investigation to	
6. The scientific method is used to	
7. The variable in the equation is	
8. An observation is similar to	
9. The data was used to	

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Name: _____

INSTRUCTIONS: Choose the best answer to complete each statement.

- 1. A conclusion comes at the
 - (a) middle
 - (b) beginning
 - © end
- 2. Data is used to _____.
 - (a) produce energy
 - (b) draw conclusions
 - © manufacture products
- 3. A hypothesis is formulated based on _____ evidence.
 - (a) absolute
 - b proven
 - © limited
- 4. An investigation is not
 - (a) a study
 - (b) an idea or theory
 - © an examination
- 5. Materials for a project are like

_____ for a recipe.

- a pots
- (b) utensils
- © ingredients

- 6. During an observation, a scientist may _____.
 - (a) walk away
 - (b) work on something else
 - © record information
- 7. What is another word for *procedure*?
 - a goal
 - b routine
 - © reason
- 8. The scientific method is a process used to _____ theories.
 - (a) test
 - (b) limit
 - (c) create
- 9. A variable is the opposite of
 - (a) a constant
 - (b) an inference
 - © a solution