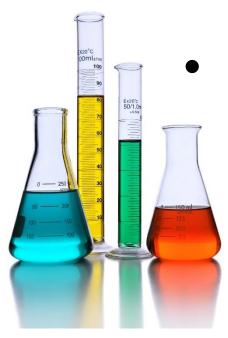
Variables

in experiments



Independent

- Dependent
 - ·Controlled

Hidden Message Scavenger Hunt

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- 10. Scavenger Hunt Answer Key
- 11-14. Fact Gards



Directions

Prep:

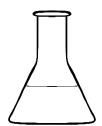
- 1. Print a master (color is best) copy of the student pages and fact cards. If card stock is available for fact cards, this is recommended.
 - 2. Gut and laminate the fact cards for durability.
 - 3. Make student copies of the hidden message page and scavenger hunt worksheet.
 - 4. Place the fact cards in various locations for students to find. Difficulty level will not affect the activity.

Student directions: Search for the fact cards to fill in the blanks on your Scavenger Hunt page. While filling in the blanks on the Scavenger Hunt, record the hidden message letter (found on each fact card) onto the "Did you know?" page. Be sure to match the correct Fact Cards and letters. The hidden message awaits! Good luck!

*Teacher tip: This activity can be used in many different ways, but it is recommended as an introductory activity to spark student interest.

The fact cards in the scavenger hunt have the missing letters that belong below in the hidden words.

Fill in the missing letters above the number that matches each fact card to discover the completed message!



Did You know?

In math, a variable is a

3 10 7 15 8 1

that stands for a

14 5 13 9 11 4

you have to figure ______

Example:

$$5 + y = 15$$

$$y = 10$$





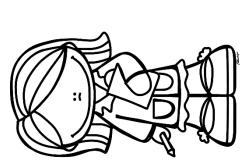
In math, a variable is a

that stands for a

Example:

$$5 + y = 15$$

$$y = 10$$



PID YOU KNOW?

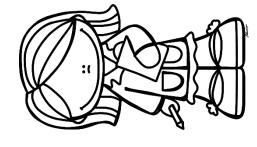
In math, a variable is a

that stands for a

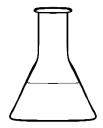
you have to figure



$$5 + \mathbf{y} = 15$$



ANSWER KEY



Did you know?

In math, a variable is a LETTER that stands for a NUMBER you have to figure OUT.

Example:

$$5 + y = 15$$

$$y = 10$$



Variables Scavenger Hunt
Directions: Find the Fact Cards (in any order) and fill in the missing words. Be sure to fill in the hidden letters on the "Did you know?" page.

1.	Experiments are a great way to observe	and	relationships.		
2.	By conducting an experiment, you are problem solving	ng and looking for	·		
3.	When planning an experiment, you must always consider your				
4.	In science, a variable is something that can be	,	, or		
5.	There are 3 types of scientific variables.				
	•	(the cause)	/ 7/A		
	•	(the effect)			
	•	(the constants)			
6.	The independent variable is what you are going to ch	nange and	Bridge		
	When you test an independent variable, you collect _	-			
	An experiment can only have				
0.	change one factor at a time so that your results are _	•	This means that you should only		
a	Valid means accurate and				
			1 0		
	The variable is what you measure or observe. In a cause and effect relationship, the dependent variable is the				
	Controlled variables are the				
	For example, if you are comparing the				
	taller the amount of water and sunlight		-		
12	Independent variable example:	. they each receive shou	iiu be tile same.		
	If you are testing 2 different battery brands to see where the state of the state o	nich one leete lenger ve	ur indopondent variable in the		
		3 .,	·		
	of battery because you a Dependent variable example:	are using	brands.		
	·	nich and lasta langer ve	ur denendent verieble is the		
	If you are testing 2 different battery brands to see wh	•	·		
15		es to use up the batterie	es, because it depends on the brand.		
15.	Controlled variables example:	nich and lasta langer ve	u abould toot them both in the come		
	If you are testing 2 different battery brands to see wh		iu Shoulu lest them doth in the same		
	kind of, such as a flashlig	Jnt.			

Variables Scavenger Hunt – Page 1

Directions: Find the Fact Cards (in any order) and fill in the missing words. Be sure to fill in the hidden letters on the "Did you know?" page.

1.	Experiments are a great way to observe	and		
	relationships.			
2.	By conducting an experiment, you are problem solving and looking for			
3.	When planning an experiment, you must always consider your			
4.	4. In science, a variable is something that can be	,		
	, or			
5.	5. There are 3 types of scientific variables.			
	• (the cau	use)		
	• (the effe	ect)		
	• (the cor	nstants)		
6.	6. The independent variable is what you are going to change	e and		
7.	7. When you test an independent variable, you collect	by recording		
	what happened.			
8.	8. An experiment can only have independent val	riable. This		
	means that you should only change one factor at a time so that your results are			
)		

Variables Scavenger Hunt – Page 2

9.	Valid means accurate and		
10.	The variable is what you measure or observe.		
11.	In a cause and effect relationship, the dependent variable is the		
12.	Controlled variables are the factors that do not change where		
	conducting an experiment. For example, if you are comparing the growth of two		
	different plants to see which one grows taller the amount of water and sunlight they		
	each receive should be the same.		
13.	Independent variable example:		
	If you are testing 2 different battery brands to see which one lasts longer, your		
	independent variable is the of battery because you are using		
	brands.		
14.	Dependent variable example:		
	If you are testing 2 different battery brands to see which one lasts longer, your		
	dependent variable is the it takes to use up		
	the batteries, because it depends on the brand.		
15.	Controlled variables example:		
	If you are testing 2 different battery brands to see which one lasts longer, you should		
	test them both in the same kind of, such as a flashlight.		

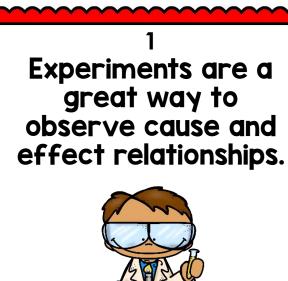
Variables Scavenger Hunt

ANSWER KEY

- 1. Experiments are a great way to observe **cause** and **effect** relationships.
- 2. By conducting an experiment, you are problem solving and looking for **answers**.
- 3. When planning an experiment, you must always consider your variables.
- 4. In science, a variable is something that can be **changed**, **controlled**, or **measured**.
- 5. There are 3 types of scientific variables.
 - Independent (the cause)
 - Dependent (the effect)
 - Controlled (the constants)
- 6. The independent variable is what you are going to change and test.
- 7. When you test an independent variable, you collect **data** by recording what happened.
- 8. An experiment can only have **one** independent variable. This means that you should only change **one** factor at a time so that your results are **valid**.
- 9. Valid means accurate and reliable.
- 10. The **dependent** variable is what you measure or observe.
- 11. In a cause and effect relationship, the dependent variable is the effect.
- 12. Controlled variables are the **constant** factors that do not change when conducting an experiment.

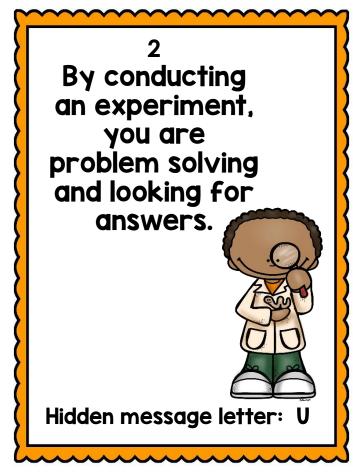
For example, if you are comparing the growth of two different plants to see which one grows taller the amount of water and sunlight they each receive should be the same.

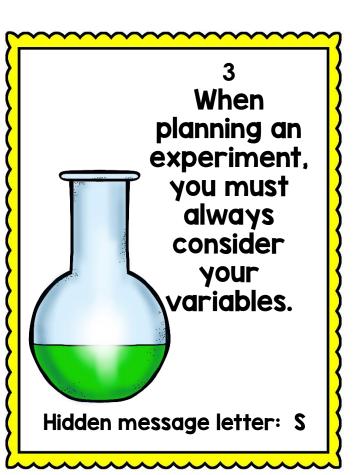
- 13. Independent variable example:
 - If you are testing 2 different battery brands to see which one lasts longer, your independent variable is the **brand** of battery because you are using **different** brands.
- 14. Dependent variable example:
 - If you are testing 2 different battery brands to see which one lasts longer, your dependent variable is the **amount of time** it takes to use up the batteries, because it depends on the brand.
- 15. Controlled variables example:
 - If you are testing 2 different battery brands to see which one lasts longer, you should test them both in the same kind of **device**, such as a flashlight.

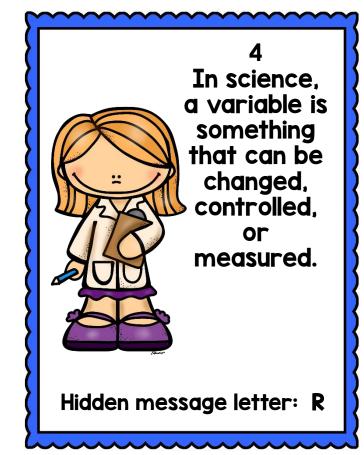




Hidden message letter: L





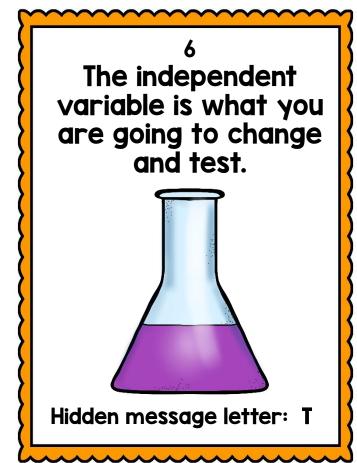




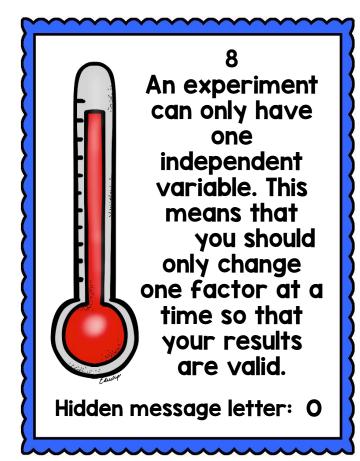
- Independent (the cause)
- Dependent (the effect)
- Controlled (the constants)

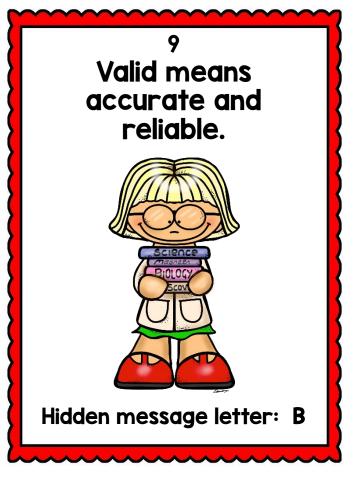


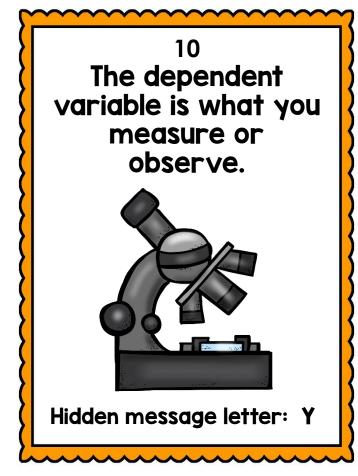
Hidden message letter: U

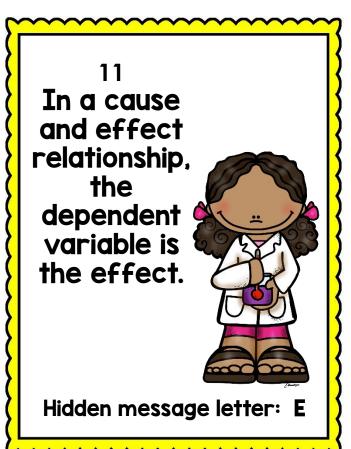


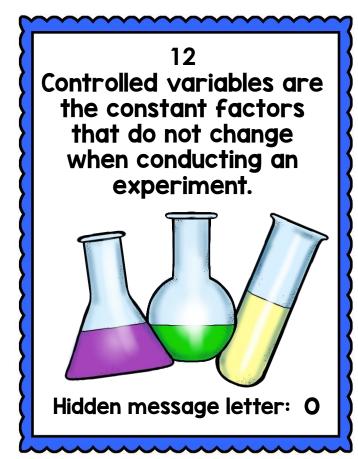




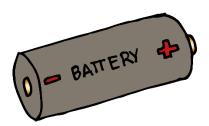








13
Independent variable
example:
If you are testing 2
different battery brands
to see which one lasts
longer, your independent



variable is the brand of

battery because you are

using different brands.

Hidden message letter: M

Dependent variable example:

If you are testing 2 different battery brands to see which one lasts longer, your dependent variable is the amount of time it takes to use up the batteries, because it depends on the brand.

Hidden message letter: N

15
Controlled variables
example:
If you are testing 2

different battery brands
to see which one lasts
longer, you should test
them both in the same kind
of device, such as a
flashlight.



Hidden message letter: B

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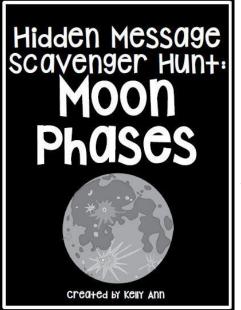
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