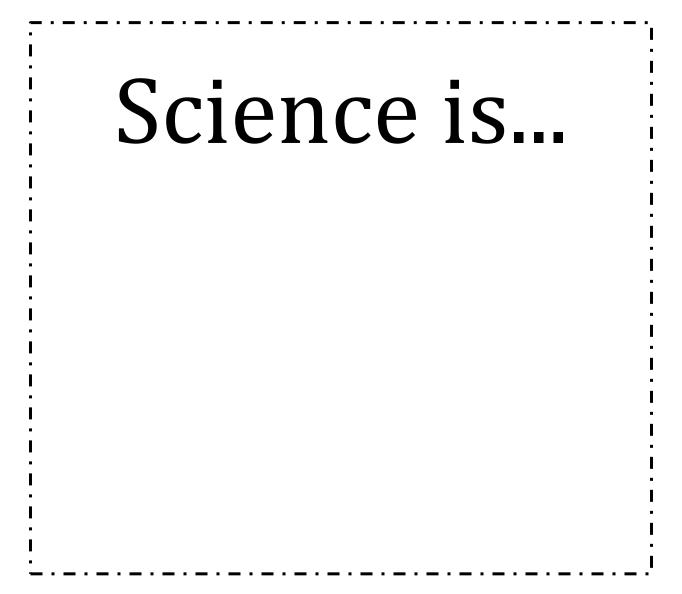
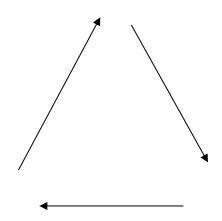
## 7th Grade Science The Nature of Science: Scientific Processes

Vocabulary: science, observation, inference, hypothesis, variable, constant, control, data, bias, theory, law, technology



Science is the	and	of
	and	
the		_ that results from
these investigations.		



The _			_ is a general set of steps that helps
	tists perform		
•	An	leads to a	·
•	A good scientist always	does	to see what information is
	already available.		
•	A, or		, is an answer to the
	question that can be		
•	The	_ procedure is used	to test the
2 type	es of data:	u:	ses
•		- u:	ses

## **Experimental Design**

A good experiment is one that can be replicated by other scientists. The steps must be
clear, and the potential for error should be as small as possible. Every year,
experimental results are published, only to later be redacted ()
because of procedural mistakes or irreplicable results.

Groups	ın	$\alpha$	OVDO	rim	00	٠.
		711	$\rightarrow$ x $\rightarrow$		. —	
CICAPO		u i	CAPC			٠.

os in an experiment:	- the group that receives
	It serves as a against
which other groups ca	n be
	the group or groups for which
something is	This factor is usually
related somehow to th	e .
rs in an experiment:	

## Fact

a an	ovnoriment:	
	experiment:	
ıy fa	ictor that changes is called a	·
0	The	variable is
	by the scientist. This can als	so be called the
	or the	There
	should be only!	
0	The	variable(s) changes in
	response to the treatment. T	hese factors are
	by the	scientist. This can also
	be called the	or the
		<del>-</del>
0	are factors	that do not change. They
	should remain the	for all groups





## **Experimental Analysis**

is the	obtained from the investigation. It can be			
•	uses	, or;		
•	uses	·		
A is an	error introduced ir	nto the experim	nent by	
or or	ne outcome or answer	over others. I	t may be intentional	or
unintentional. Ao	or	study ca	n reduce potential b	ias.
Charts and graphs assist in		and	(	data
in a useful and understanda	ble way.			
• use	ed to show continuous	sly	data over	
• use	ed for distinct	<del>-</del>		
• sho	ows the	of the	group.	
ar	e made with the			
or with				
that our				
		4		
ar	e	2	15 -6-24	
of t			THEN A HO	ms 1.0.
drawn from prior		( )	occurs +-In	RT
·		( Z	1	, = L
		TA		
The process of	the new	111(	Tehoris	
information with what you _		"I think yo	u should be more explicit he	re in
is ca	lled	step two."		