



Name _____ Period _____

This material will be test on _____

Intro Part 1 "What is Science?"

Science (in Latin *scientia*, means _____) is the effort to _____ and increase _____ of how the _____ works.

Any _____ of _____ that is concerned with the _____ and its _____ that entails unbiased _____ and systematic _____.

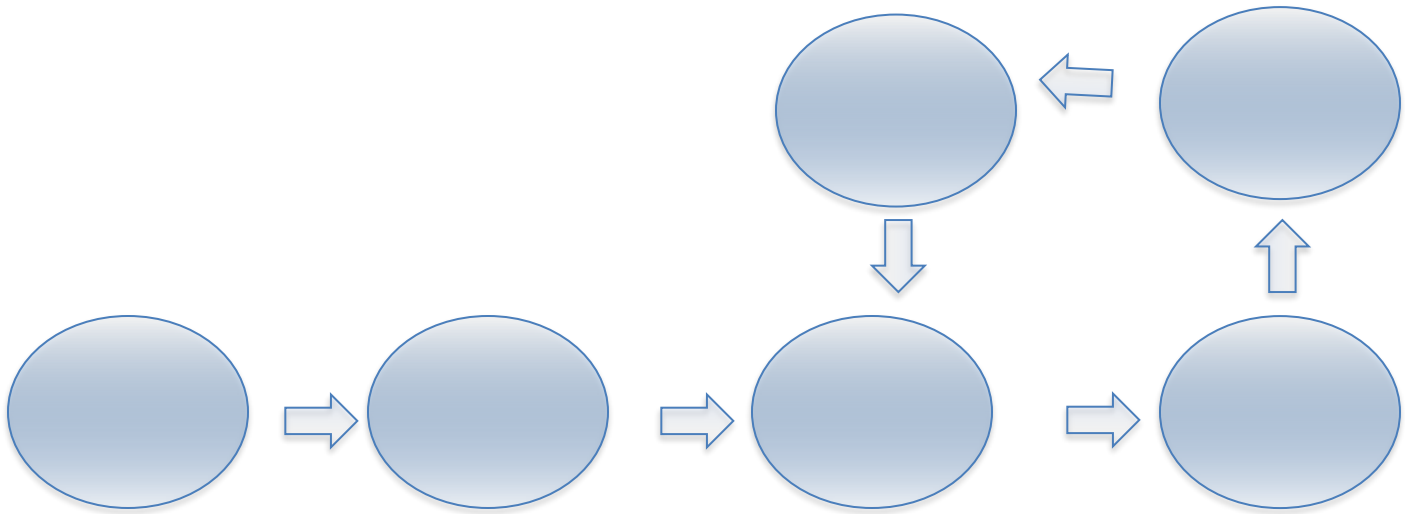
Simpler definition:

Science is _____

How does Science differ from other fields of study? (Copy all plus Highlight/Underline as shown) _____

All scientists observe things, try you explain their observations and the conduct experiments to test their ideas. This process is known as the _____

Scientific Method _____



_____ is one of the most important tools for a scientist.

What did you observe? -How many can you answer? Leave slide 10 up for 2 min ...Then click ahead to see the questions -No Peeking!!

- 1. a.
- 2. b.
- 3. c.
- d.

What is a Scientist?



There are many different types of Scientist.

Here are a few of them:

_____ studies stars planets and other objects in the universe.

_____ studies chemical substances found in living organisms.

_____ studies plants.

_____ studies chemical substances such as plastics, metals, and food.

_____ studies harmful effects of chemicals on the environment including animals and plants.

_____ studies the earth, including rocks and soils and how they form.

_____ studies medicines and drugs.

_____ studies animals

Mrs. Gales wanted to add these two to the list:

_____ studies the relations and interactions between organisms and their environment.

_____ studies human impact on the environment.

What is NOT Science?

Studies that are not based on _____ (yet _____ to be scientific) are called _____
i.e. they make claims that _____

Where do we often see pseudoscience? _____

Can students be scientists?

Teen scientists already changing the world

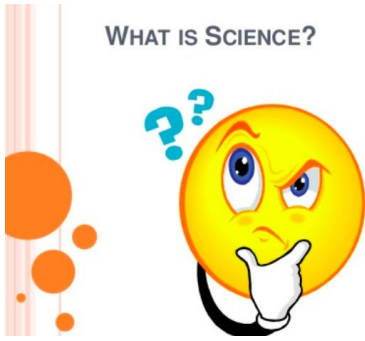


From left to right: Arjun Ramani developed a new mathematical method to answer questions about networks. Indrani Das studied a possible approach to treating brain cell death caused by injury and disease. Aaron Yeiser developed a new numerical method for solving partial differential equations. Photo courtesy of Chris Ayers.

Arjun Ramani, 18, of West Lafayette, Ind., won the third place award of \$150,000. Ramani developed a new mathematical method that could potentially accelerate the process of network evaluation.

Indrani Das, 17, of Oradell, N.J., won the top award of \$250,000 for conducting a three-year study of brain injury that identified a potential major mechanism of neuron death and a possible treatment method.

Aaron Yeiser, 18, of Schwenksville, Pa., received the second place honor and \$175,000. Yeiser developed a new numerical method for solving partial differential equations on complicated geometries. His method could lead to better airplanes and possibly better artificial heart pumps.



Student Notes verification page
-A ClassWork 35% Grade ...**BOTH signatures are required**
ACTUAL SIGNATURES preferred (10 point bonus) Not just cursive font

1. I have completed my notes
2. I have viewed the teaching videos requested while I re-read through the ENTIRE THING to increase my understanding
3. I added any essential facts I heard in the video.

(Student Name Printed)

(Student Signature)

1. I have verified that ALL blanks are filled
2. I have ensured my student has re-read the document while watching the teaching video.
3. I then discussed the lesson with my student to help clarify if needed.

(Parent Name Printed)

(Parent Signature)