



Science 9



Course Outline

Expectations



Science - a branch of knowledge requiring systematic study and method, dealing with substances, life and natural laws.

Scientist - an expert in a science

Scientific Method for Investigations

Scientists try to find patterns in things and look for explanations for the pattern. The scientific method is a way of approaching and solving a problem, or answering a question.



Here's the recipe.

- **Ask a question.**
 - **Gather information.**
 - **Form a hypothesis, propose a solution.**
 - **Test the proposed solution.**
 - **Evaluate the data. Is the hypothesis correct? Does it make sense?**
 - **Report results. Let others know.**
- Make changes. Propose a better solution.**

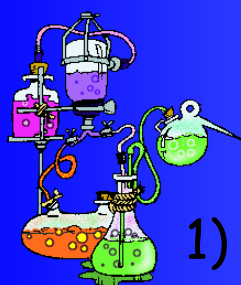


If your methods make sense, then others may accept your hypothesis as a theory. If not, then your hypothesis may be rejected. There is always the possibility that new observations or new information will disprove a long-standing theory.

Homework

Must write or print this out

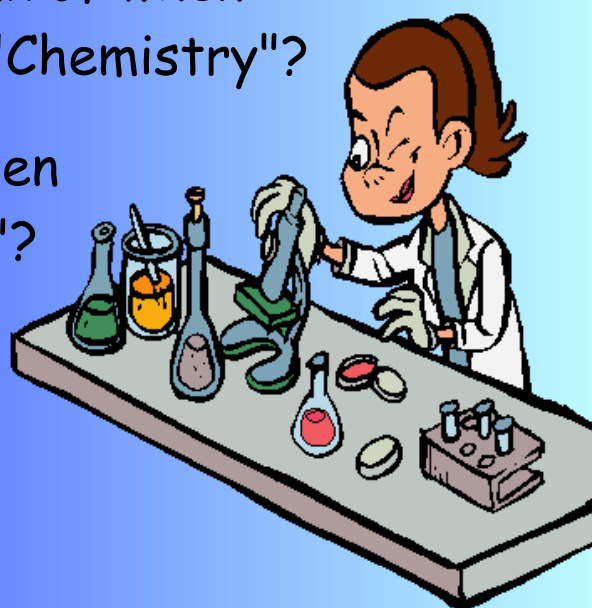
- Name one female scientist and what did they discover.
- Name one Male Scientist and what they discovered
- Name of 4 branches of scientists and what they study other than Chemistry & Biology



Warm Up

1) What do you think of when you hear the word "Chemistry"?

2) What do you think of when you hear the word "Biology"?





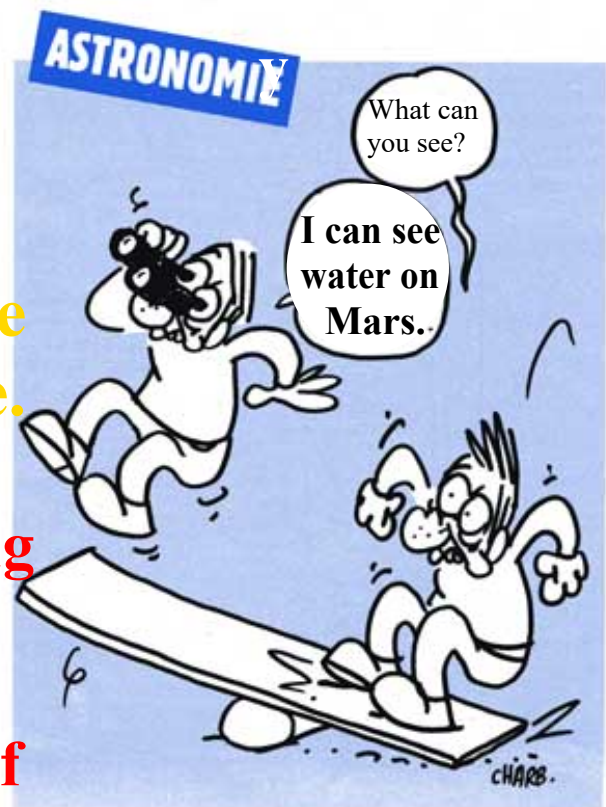
Warm Up

Think about our night sky. In your notebooks write 5 things you know that are in the night sky.

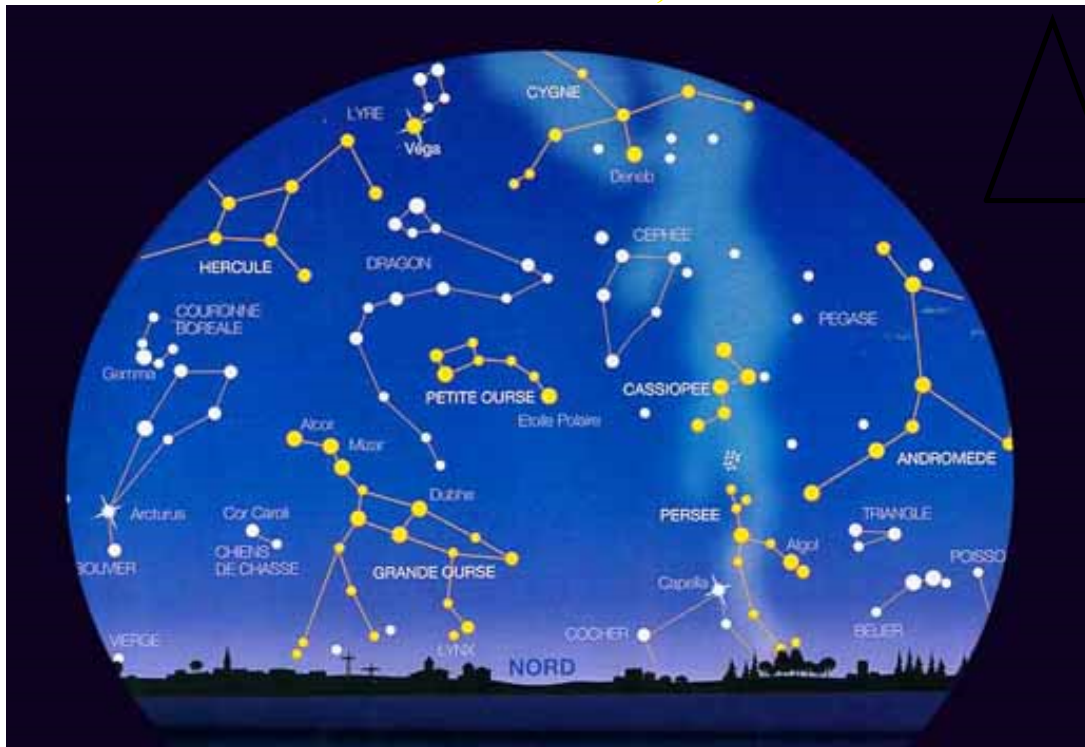
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In the night sky there are many patterns and systems that may not be apparent at first glance.

The universe is everything that exists, including all matter and energy everywhere. The study of what is beyond the Earth is called astronomy.



Stars can take the form of Gods, animals, etc. Groups of stars that seem to form shapes or patterns are called constellations. These stars are far from one another, however by the naked eye they appear close. Constellations have been used as calendars, direction finders, etc.



copy all notes

Constellations

Vocabulary

- *Astronomer* - a person who studies the sky
- *Hemisphere* - half of the Earth
- *Light-year* - the distance light travels in one year
(9,458,000,000,000 kilometers)
- *Magnitude* - a number that describes how bright a star appears. Smaller numbers mean brighter stars.

Attachments

Natural Science 9 Course Outline 2018 (Semester 2).pdf