

How Do Scientists Study Living Things?

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► biology

- the study of living things

- biologists

- scientists who study biology

- ecologists

- study ecology

- ▲ relationship of organisms to their environment

► biosphere

- part of Earth in which life exists

- includes soil, water & air

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► scientific method

- general pattern used by scientists

- stating a problem

- observing

- using the senses to get info

- ex. measurement

- ▲ with tools

- balances, thermometers, meter sticks

- ▲ use metric units

U-1 L-2 (cont.)

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- collecting data (information)
 - via observing
 - ▲ often numbers
 - ▲ organize w/ data tables
 - via reading reports
 - ▲ care re resources
- making hypotheses
 - = possible answer
- testing hypotheses
 - via new observations
 - via experiments
- conclusion
 - explanation
 - CER method helpful in writing conclusion
 - ▲ claim?
 - what is claimed as true?
 - ▲ evidence?
 - point out specific data
 - ▲ reasoning?
 - describe why evidence supports claim

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► theory

- idea that has been tested many times