

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
 - ▲ counting ▲ thermometers ▲ microscopes
 - ▲ balances ▲ meter sticks

U-1 L-2 (cont.)

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- collecting facts
 - via observing
 - 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