

# 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

## ► scientific method

- general pattern used by scientists

- state a problem

- observe

  - using senses to get info

  - ex. measurement

    - ▲ with tools

      - balances, thermometers, meter sticks

    - ▲ use metric units

## U-1 L-2 (cont.)

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- collect facts
  - via reading reports
    - ▲ careful re sources
- make hypothesis
  - possible answer
- test hypothesis
  - via new observations
  - via experiments
  - data = information
    - ▲ often numbers
    - ▲ organize w/ data tables
    - ▲ graphs to see patterns
- conclude
  - explanation
  - **GER** method to write
    - ▲ claim
      - what is claimed to be true
    - ▲ evidence
      - point out specific data
    - ▲ reasoning
      - describe why evidence supports claim

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- ▶ theory
  - idea that has been tested many times