

How Research Can Influence YOU!

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Everyone who is
interested in research
please raise your hand.



What is research?

- Research is the investigation of a particular topic using a variety of reliable, scholarly resources.
- The three major goals of research are establishing facts, analyzing information, and reaching new conclusions.
- The three main acts of doing research are searching for, reviewing, and evaluating information.
- The systematic investigation into and study of materials and sources in order to establish facts and reach new conclusions.

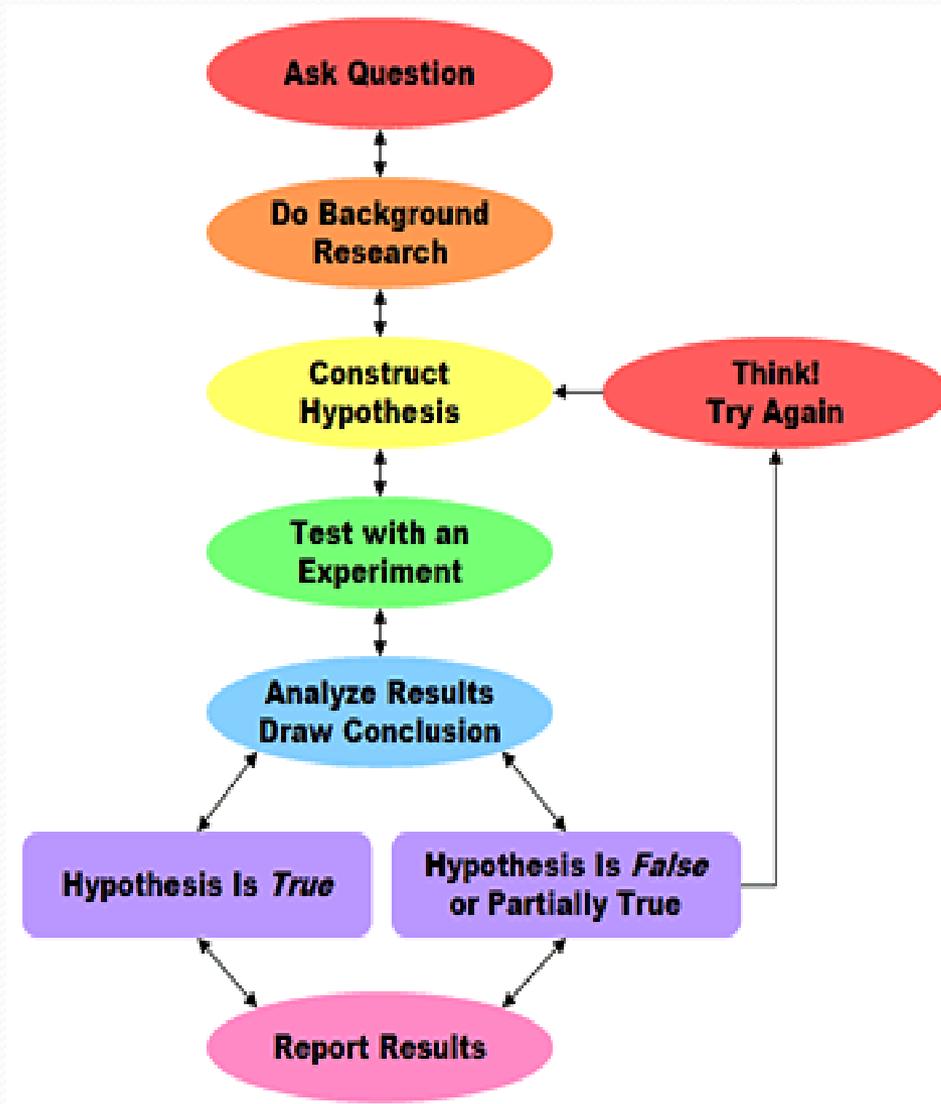
Research is NOT

- A random compilation of different facts.
- Randomly selecting books from the library is not research, nor is surfing the Internet.
- Copying information from the internet.

Aims of Research

- Observe and Describe
- Predict
- Determination of Causes
- Explain

Scientific Method



Where can we find research?

- Research is in all disciplines and subjects, not just science, it must begin with a clearly defined goal.
- This usually, but not always, takes the form of a hypothesis.

Research in Different Fields

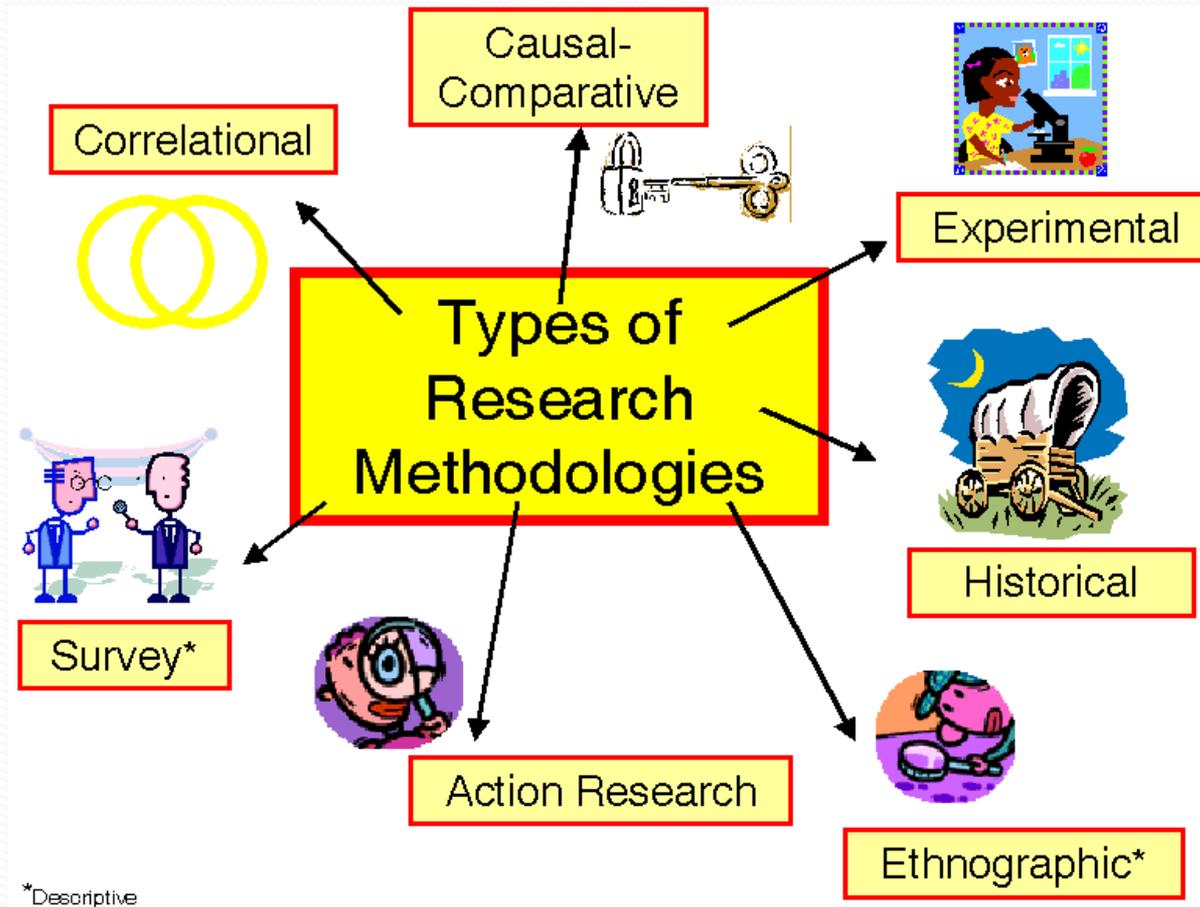
- Biology
- Sociology
- Chemistry
- Anthropology
- English
- Medicine
- Psychology

**What types of research
are there?**

Qualitative Research v. Quantitative Research

- **Qualitative research** is by definition exploratory, and it is used when we don't know what to expect, to define the problem or develop an approach to the problem. It's also used to go deeper into issues of interest and explore nuances related to the problem at hand.
- **Quantitative research** is conclusive in its purpose as it tries to quantify the problem and understand how prevalent it is by looking for projectable results to a larger population.

Types of Research Methods



Careers in Research

- Medical Doctor
- Research Assistant
- Research Coordinator
- Program Coordinator
- Grants Manager
- Biostatistician
- Project Manager
- Coder
- Grants Writer
- Research Consultant
- Laboratory Assistant
- Laboratory Technician



Which group of people are conducting research?



PHOTO: THINKSTOCK



High School Research Opportunities

- Summer Internship Program in Biomedical Research
- Short Term Education Program for Underrepresented Persons
- University of Hawaii Cancer Center
- University of Alaska



STEP-UP

Short Term Education Program for Underrepresented Persons

- **Program Highlights**
- 8 to 12-weeks of full-time research experience with flexible starting dates.
- Summer research stipend.
- Students are assigned to one of four High School STEP-UP Coordinating Centers to help coordinate and monitor their summer research experience.
- Students are paired with experienced research mentors at institutes throughout the nation.

STEP-UP

- Students are encouraged to choose a research institute and/or mentor near their hometown or within commuting distance of their residence. Students are not required to relocate in order to conduct their summer research.
- Students receive training in the responsible conduct of research.
- All-paid travel expenses to the Annual High School STEP-UP Research Symposium held on NIH's Main Campus in Bethesda, Maryland--gives students the opportunity to conduct a formal oral and poster research presentation.



Thank You!

Please apply to research internships.