

# C3: Research Methods - Chapter 2

Content Area: **Social Studies**  
Course(s): **Psychology**  
Time Period: **Semester 1**  
Length: **2 weeks**  
Status: **Published**

## Standards

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SCI.9-12.SI	Scientific Inquiry
SCI.9-12.SI.2	Research Methods, Measurement, and Statistics
SCI.9-12.SI.2.1	Research methods and measurements used to study behavior and mental processes
SCI.9-12.SI.2.1.1	Describe the scientific method and its role in psychology
SCI.9-12.SI.2.1.2	Describe and compare a variety of quantitative (e.g., surveys, correlations, experiments) and qualitative (e.g., interviews, narratives, focus groups) research methods
SCI.9-12.SI.2.1.3	Define systematic procedures used to improve the validity of research findings, such as external validity
SCI.9-12.SI.2.1.4	Discuss how and why psychologists use non-human animals in research
SCI.9-12.SI.2.2	Ethical issues in research with human and non-human animals
SCI.9-12.SI.2.2.1	Identify ethical standards psychologists must address regarding research with human participants
SCI.9-12.SI.2.2.2	Identify ethical guidelines psychologists must address regarding research with non-human animals
SCI.9-12.SI.2.3	Basic concepts of data analysis
SCI.9-12.SI.2.3.1	Define descriptive statistics and explain how they are used by psychological scientists
SCI.9-12.SI.2.3.2	Define forms of qualitative data and explain how they are used by psychological scientists
SCI.9-12.SI.2.3.3	Define correlation coefficients and explain their appropriate interpretation
SCI.9-12.SI.2.3.4	Interpret graphical representations of data as used in both quantitative and qualitative methods
SCI.9-12.SI.2.3.5	Explain other statistical concepts, such as statistical significance and effect size
SCI.9-12.SI.2.3.6	Explain how validity and reliability of observations and measurements relate to data analysis

## Enduring Understandings

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### **The students will understand that:**

- 1. there are advantages to using research over other ways of knowing.**
- 2. there are advantages and disadvantages of case study research.**
- 3. there are advantages and disadvantages of naturalistic observations.**
- 4. there are advantages and disadvantages of survey research.**
- 5. correlation research does not yield causal conclusions.**
- 6. there are specific elements of an experiment.**
- 6. the elements of an experiment can be used in many different situations.**
- 7. ethics are a very important aspect of research.**

**8. statistics and research are vitally important in research and application.**

## Essential Questions

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### **Essential Questions**

- 1. How do psychologists use the scientific method to study behavior and mental processes?**
- 2. Which methods of research are appropriate for the study of different behaviors?**
- 3. How do psychologists draw appropriate conclusions about behavior from research?**
- 4. How do psychologists make ethical decisions about researching behavior with human and animal subjects?**

## Knowledge and Skills

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### **Learning Objectives (SWBAT)**

- Discuss the advantage of research over other ways of knowing.**
- Discuss the advantages and disadvantages of case study research.**
- Discuss the advantages and disadvantages of naturalistic observations.**
- Discuss the advantages and disadvantages of surveying**

### **Activities:**

- 1. Participation Board & Quiz**
- 2. Discussion questions and debate topics: research types and Little Albert**
- 3. Interactive PowerPoint.**
- 4. Application activities: create your own research for toothpaste**
- 5. AP review questions and general review**

## 6. YouTube video analysis: examples from trait

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### Transfer Goals

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**Students will be able to independently design authentic and ethical research studies that can assist them in making appropriate and scientific conclusions about behavior.**

### Resources

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#### Textbook Reading

Primary Student Textbook: Myers Psychology for AP

#### Course Resources:

1. Benjamin, Ludy T. Jr., eds. *Favorite Activities for the Teaching of Psychology*. Washington, D.C.: American Psychological Association, 2008.
2. Bensley, D. Alan. *Critical Thinking in Psychology: A Unified Skills Approach*. Pacific Grove, Calif.: Brooks/Cole, 1998.
3. Hock, Roger R. *Forty Studies that Changed Psychology: Explorations into the History of Psychological Research*. 5th ed. Upper Saddle River, N.J.: Pearson/Prentice Hall, 2005.
4. Rolls, Geoff. *Classic Case Studies in Psychology*. London: Hodder Arnold, 2005.
5. Freud's Case Studies

Additional Resources from WH databases, and articles connected to the content, including primary readings, historiography, and secondary sources.

#### Links

<http://psychcentral.com/>

<http://www.psychologytoday.com/>

<http://www.apa.org/>

<http://www.scientificamerican.com/section/lateststories/>

<http://www.psychologicalscience.org/>

<http://www.sciencedaily.com/news>

<http://www.alleydog.com/>

<http://www.apa.org/research/action/glossary.aspx>

<http://allpsych.com/psychology101/index.html>

<http://www.simplypsychology.org/perspective.html>

<http://www.outofservice.com/bigfive/>

<http://www.psychologytoday.com/blog/fulfillment-any-age/201110/the-essential-guide-defense-mechanisms?page=2>

## **Assessments**

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<https://docs.google.com/document/d/1mKgdwpriGuRcVHIVCJUdBek7lih12Q0ckKSTC4TMUXs/edit>

## **Modifications**

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<https://docs.google.com/document/d/1XtUWvYfqhUpgTH9A995xZIQ64jsDH2LtXo1yBo7zxDw/edit>