

# Unit 2: Research Methods

Content Area: **Template**  
Course(s):  
Time Period: **Marking Period 1**  
Length: **9 Classes**  
Status: **Published**

## State Mandated Topics Addressed in this Unit

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N/A	N/A

## Unit II: Research Methods [SC2]

*A. Experimental, Correlational, and Clinical Research*

*B. Statistics*

*C. Research Methods and Ethics*

## Learning Objectives

- Objective 1 - Introduction to case studies, surveys, naturalistic observations, correlational studies, and experimental studies and their importance to the field of psychology.
- Objective 2 - Identify basic elements of an experiment (variables, groups, sampling, population, etc.)
- Objective 3 - Describe the three measures of central tendency and measures of variation.
- Objective 4 - Discuss the advantages and disadvantages of each of the research methods.
- Objective 5 - Evaluate why correlational research does not yield causal conclusions.
- Objective 6 - Discuss the importance of statistical significance.

## Essential Skills

- Essential Skill 1 - Copy and paste
- Essential Skill 10 - Copy and paste
- Essential Skill 2 - Copy and paste
- Essential Skill 3 - Copy and paste
- Essential Skill 4 - Copy and paste
- Essential Skill 5 - Copy and paste
- Essential Skill 6 - Copy and paste
- Essential Skill 7 - Copy and paste
- Essential Skill 8 - Copy and paste

- Essential Skill 9 - Copy and paste

## Standards

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SOC.9-12.1.2	Research Methods in Psychology
SOC.9-12.1.F	Differentiate types of research with regard to purpose, strengths, and weaknesses.
SOC.9-12.1.F.1	Research method: experiments
SOC.9-12.1.F.2	Research method: correlational studies
SOC.9-12.1.F.3	Research method: survey research
SOC.9-12.1.F.4	Research method: naturalistic observations
SOC.9-12.1.F.5	Research method: case studies
SOC.9-12.1.F.6	Research method: longitudinal studies
SOC.9-12.1.F.7	Research method: cross-sectional studies
SOC.9-12.1.G	Discuss the value of reliance on operational definitions and measurement in behavioral research.
SOC.9-12.1.3	Defining Psychological Science: The Experimental Method
SOC.9-12.1.H	Identify independent, dependent, confounding, and control variables in experimental designs.
SOC.9-12.1.I	Describe how research design drives the reasonable conclusions that can be drawn.
SOC.9-12.1.I.1	Experiments are useful for determining cause and effect.
SOC.9-12.1.I.2	The use of experimental controls reduces alternative explanations.
SOC.9-12.1.I.3	Random assignment is needed to demonstrate cause and effect.
SOC.9-12.1.I.4	Correlational research can indicate if there is a relationship or association between two variables but cannot demonstrate cause and effect.
SOC.9-12.1.J	Distinguish between random assignment of participants to conditions in experiments and random selection of participants, primarily in correlational studies and surveys.
SOC.9-12.1.4	Selecting a Research Method
SOC.9-12.1.K	Predict the validity of behavioral explanations based on the quality of research design.
SOC.9-12.1.K.1	Confounding variables limit confidence in research conclusions.
SOC.9-12.1.5	Statistical Analysis in Psychology
SOC.9-12.1.L	Apply basic descriptive statistical concepts, including interpreting and constructing graphs and calculating simple descriptive statistics.
SOC.9-12.1.L.1	Measures of central tendency
SOC.9-12.1.L.2	Variation (range, standard deviation)
SOC.9-12.1.L.3	Correlation coefficient
SOC.9-12.1.L.4	Frequency distribution (normal, bimodal, positive skew, negative skew)
SOC.9-12.1.M	Distinguish the purposes of descriptive statistics and inferential statistics.
SOC.9-12.1.6	Ethical Guidelines in Psychology
SOC.9-12.1.N	Identify how ethical issues inform and constrain research practices.
SOC.9-12.1.O	Describe how ethical and legal guidelines protect research participants and promote sound ethical practice.

SOC.9-12.1.O.1	Those provided by the American Psychological Association
SOC.9-12.1.O.2	Federal regulations
SOC.9-12.1.O.3	Local Institutional Review Board (IRB)
SOC.9-12.1.O.4	Institutional Animal Care and Use Committee (IACUC)

## **Instructional Tasks/Activities**

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- Activity 1
- Activity 10
- Activity 2
- Activity 3
- Activity 4
- Activity 5
- Activity 6
- Activity 7
- Activity 8
- Activity 9

## **Assessment Procedure**

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- Classroom Total Participation Technique
- Classwork
- DBQ
- Essay
- Exit Ticket/Entrance Ticket/Do Now
- Journal / Student Reflection
- Kahoot
- Other named in lesson
- Peer Review
- Performance
- Problem Correction
- Project
- Quiz
- Rubric
- Teacher Collected Data
- Test
- Worksheet

## **Recommended Technology Activities**

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- Appropriate Content Specific Online Resource
- Chromebook
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Copy/Paste Content Specific Link Here
- Gimkit
- GoGuardian
- Google Classroom
- Google Docs
- Google Forms
- Google Slides
- Kahoot
- MagicSchool AI
- Other- Specified in Lesson
- Quiziz
- Screencastify

## **Accommodations & Modifications & Differentiation**

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Accommodations and Modifications should be used to meet individual needs. Their IEP and 504 plans should be used in addition to the following suggestions.

## **Gifted and Talented**

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- Compare & Contrast
- Conferencing
- Debates
- Jigsaw
- Peer Partner Learning
- Problem Solving
- Structured Controversy
- Think, Pair, Share
- Tutorial Groups

## **Instruction/Materials**

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- alter format of materials (type/highlight, etc.)

- color code materials
- eliminate answers
- extended time
- extended time
- large print
- modified quiz
- modified test
- Modify Assignments as Needed
- Modify/Repeat/Model directions
- necessary assignments only
- Other (specify in plans)
- other- named in lesson
- provide assistance and cues for transitions
- provide daily assignment list
- read class materials orally
- reduce work load
- shorten assignments
- study guide/outline
- utilize multi-sensory modes to reinforce instruction

## **Environment**

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- alter physical room environment
- assign peer tutors/work buddies/note takers
- assign preferential seating
- individualized instruction/small group
- modify student schedule (Describe)
- other- please specify in plans
- provide desktop list/formula

## **Honors Modifications**

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## **Resources**

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- Resource 1
- Resource 2
- Resource 3

- Resource 4
- Resource 5