02_Identifying the Research Study Questions

Content Area: **Science**
Course(s):
Time Period: **Full Year**
Length: **5-6 weeks**
Status: **Published**

General Overview, Course Description or Course Philosophy

This course assesses the student's ability to recognize and understand the entire health research process. Students are expected to know how to conceptualize a research project and see it through to completion, including identifying a focused research question, choosing appropriate study designs, collecting data that will answer the question, basic understanding of data analysis, disseminating findings, and following research ethical principles and considerations.

OBJECTIVES, ESSENTIAL QUESTIONS, ENDURING UNDERSTANDINGS

- There are ways to select a research question

- There are ways to review literature

- There are ways to define specific target goals or aims

- Individuals can choose to co-author

CONTENT AREA STANDARDS

RELATED STANDARDS (Technology, 21st Century Life & Careers, ELA Companion Standards are Required)

STUDENT LEARNING TARGETS

Declarative Knowledge

Students will understand that:

- Research questions using PICO framework

- Specific aims and hypothesis

- How to recognize the terminology and database commonly used in health research

- How to evaluate the literature critically (e.g., internal/external validity, originality, replicability)

Procedural Knowledge

Students will be able to:

- Define a research question using PICO framework

- Define specific aims and hypothesis

- Recognize the terminology and database commonly used in health research

- Evaluate the literature critically (e.g., internal/external validity, originality, replicability)

EVIDENCE OF LEARNING

Formative Assessments

Required Activities:

1) Checkpoint questions

2) Comprehension of key terms

3) Completion of Study Guide

4) Chapter Quiz-test Questions

Summative Assessments

- Diagrams

- Quizzes

- Tests

RESOURCES (Instructional, Supplemental, Intervention Materials)

- Group and partner activities are assigned when possible

- Students will be grouped based on learning styles and approach to processing content

INTERDISCIPLINARY CONNECTIONS

- Debates
- Ethics
- Current events
- Information writing

ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS

See link to Accommodations & Modifications document in course folder.