

# **02\_Identifying the Research Study Questions Copied from: Science, Technology and Society, Copied on: 06/22/22**

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**

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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**

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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**

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### **Formative Assessments**

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Required Activities:

- 1) Checkpoint questions
- 2) Comprehension of key terms

- 3) Completion of Study Guide
- 4) Chapter Quiz-test Questions

### **Summative Assessments**

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- - Benchmarks – departmental benchmark given at the end of MP1, MP2, or MP3 & MP4 b(Semester Based Course)
  - Alternative Assessments
    - Lab inquiries and investigations
    - Lab Practicals
    - Exploratory activities based on phenomenon
    - Gallery walks of student work
    - Creative Extension Projects
    - Build a model of a proposed solution
    - Let students design their own flashcards to test each other
    - Keynote presentations made by students on a topic
    - Portfolio

### **RESOURCES (Instructional, Supplemental, Intervention Materials)**

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### **INTERDISCIPLINARY CONNECTIONS**

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- Debates
- Ethics
- Current events
- Information writing

## **ACCOMMODATIONS & MODIFICATIONS FOR SUBGROUPS**

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See link to Accommodations & Modifications document in course folder.