

High School G/T Independent Research and G/T Intern/Mentor Program Essential Curriculum

UNIT I: The Nature of Research

Standard 1. The student will identify and evaluate scholarly research.

Outcomes - The student will be able to:

- a. Define authentic scholarly research.
- b. Describe how research contributes to a body of knowledge.
- c. Explore the characteristics, language, and purpose of various research methods.
- d. Compare the primary research methodologies available for designing a research study.

UNIT II: The Knowledge Base

Standard 1. The student will build a knowledge base by gathering relevant information from multiple authoritative print, digital, and human sources and assessing the usefulness of each source in answering a research question. (*Common Core ELA W8*)

Outcomes - The student will be able to:

- a. Identify, locate, evaluate, and select sources in a wide variety of formats.
- b. Network with professionals, teachers, and peers.
- c. Build a foundation of knowledge through extensive reading, determining central ideas or themes of a text and analyzing their development. (*Common Core ELA R2*)
- d. Interview content area experts for research possibilities, controversial topics, and issues in the field of interest.
- e. Summarize and organize key ideas and supporting details relevant to the knowledge base. (*Common Core ELA R2*)

Standard 2. The student will choose subjects worthy of scholarly research.

Outcomes - The student will be able to:

- a. Identify a subject for authentic scholarly research.
- b. Develop a personal viewpoint.
- c. Demonstrate independence in decision-making, goal setting, and deadlines.
- d. Propose an original research question.
- e. Draft a preliminary hypothesis.

Standard 3. The student will present the knowledge base in both oral and written formats.

Outcomes - The student will be able to:

- a. Summarize and critique collected research, producing clear and coherent writing in which the development, organization, and style are appropriate to the task, purpose, and audience. *(Common Core ELA W4)*
- b. Create an annotated source list or bibliography.
- c. Present findings orally, organizing the information clearly and logically with attention to the needs of the audience and purpose.
- d. Refine the behaviors of an effective speaker as appropriate to the audience and purpose.

Standard 4. The student will compile a polished, professional electronic research portfolio.

Outcomes - The student will be able to:

- a. Understand the significance of creating a positive digital footprint.
- b. Select, revise, and update items for a portfolio, which represent acquired knowledge and skills.
- c. Use metacognitive skills to reflect on continuing research.
- d. Share the portfolio and revise components based upon the feedback from multiple audiences.

Standard 5. The student will write arguments to support an original thesis, using valid reasoning and relevant and sufficient evidence based upon accumulated knowledge. *(Common Core ELA W1)*

Outcomes - The student will be able to:

- a. Develop a well-constructed thesis that states a position based upon the review of literature.
- b. Choose, apply, and maintain an organizational structure appropriate to the writing purpose.
- c. Evaluate information as it relates to the original thesis to determine sufficiency and relevancy.
- d. Synthesize the evaluated knowledge into a coherent discussion of the original thesis, addressing claims and counterclaims.
- e. Write a synthesis paper that analyzes and evaluates the current research relevant to the original thesis.

UNIT III: Scholarly Research

Standard 1. The student will select appropriate research methodologies and construct an authentic, scholarly, research proposal.

Outcomes - The student will be able to:

- a. Examine bibliographies for patterns, trends, and personal interests.
- b. Determine the appropriate research methodology and data collection method for original research.
- c. Use the Creative Problem Solving process while developing a research proposal.

Standard 2. The student will create new knowledge.

Outcomes - The student will be able to:

- a. Finalize the original research proposal.
- b. Conduct research.
- c. Follow protocols of data collection and communication with researchers.
- d. Collect, analyze, and interpret data using appropriate tools and methods.
- e. Articulate results and recommend solutions.

UNIT IV: Research Synthesis and Presentation

Standard 1. The student will synthesize the results of original, scholarly research, developing an authentic product for an authentic audience.

Outcomes - The student will be able to:

- a. Write an abstract that explains the major elements of the research study.
(Common Core ELA W2)
- b. Evaluate the research and product with a content expert.
- c. Edit and finalize the product for delivery.
- d. Present the research and product, and collect feedback/evaluations.

Standard 2. The student will present the results of scholarly research to an established audience.

Outcomes - The student will be able to:

- a. Present information, findings, and supporting evidence, conveying a clear and distinct perspective.
- b. Refine the behaviors of an effective speaker as appropriate to the task, audience, and purpose.
- c. Apply non-verbal communication to contribute to meaning and enhance a presentation.
- d. Make strategic use of digital media in presentations to enhance understanding of findings and evidence and to add interest.

- e. Demonstrate command of the conventions of standard English and usage when speaking.

UNIT V: The Successful Intern-Mentor Experience

Standard 1. The student will meet workplace expectations.

Outcomes - The student will be able to:

- a. Demonstrate punctuality and consistent attendance.
- b. Communicate responsibly in the workplace.
- c. Demonstrate perseverance in completing a long-term task and solving any challenges that arise.
- d. Summarize legislation regarding harassment and liability.
- e. Recognize the importance of:
 - A dress code
 - Confidentiality
 - Professional behavior.

Standard 2. The student will show initiative.

Outcomes - The student will be able to:

- a. Seek experiences and resources.
- b. Share course assignments with a mentor.
- c. Demonstrate evidence of on-going research.
- d. Develop questions based on research and observations to share with a mentor.