



**Marietta City Schools**  
**2023–2024 District Unit Planner**

*Individuals and Societies: AP Psychology*

Unit title	Unit 5: Cognitive Psychology	Unit duration (hours)	16 Hours
------------	------------------------------	-----------------------	----------

**Mastering Content and Skills through INQUIRY (Establishing the purpose of the Unit):** *What will students learn?*

**Ga DoE Standards**

- 5.1 Introduction to Memory
- 5.2 Psychological and physiological systems of memory.
- 5.3 Contributions of key researchers in cognitive psychology
- 5.4 Encoding
- 5.5 Storing
- 5.6 Retrieving
- 5.7 Forgetting and Memory Distortion
- 5.8 Biological Bases of Memory
- 5.9 Introduction to Thinking and Problem Solving
- 6.0 Biases and Errors in Thinking
- 6.1 Introduction to Intelligence

6.2 Psychometric Principles and Intelligence Testing

6.3 Components of Language and Language Acquisition

**Map and Globe Skills:**

6. use map key/legend to acquire information from, historical, physical, political, resource, product and economic maps

**Information Processing Skills:**

16. check for consistency of information

**Literacy Skills:**

**L11-12RHSS6:** Evaluate authors' differing points of view on the same historical event or issue by assessing the authors' claims, reasoning, and evidence.

**L11-12RHSS8:** Evaluate an author's premises, claims, and evidence by corroborating or challenging them with other information.

L11-12WHST1: Write arguments focused on discipline-specific content

**MCS Gifted Stds:**

S4A, S4B, S4C, S4D, S4E

**Essential Questions**

- What roles do memory and thinking play in our behaviors?
- What is intelligence and how can we study it to understand it?

In this unit, knowledge surrounding sensation, perception, and learning provides the foundation for an understanding of cognition. Cognitive psychologists focus their research on the complex nature of the brain, particularly the areas of memory processes and intelligence and the influence of mental processes on behavior. Understanding how this information is gathered and processed gives insight into how we make sense of and perceive the world. Some cognitive psychologists attempt to answer how and why cognitive processes fail despite (or because of) the complexity of our biological structures. Other psychologists study intelligence and the reasons for individual differences. This cognitive perspective offers one way to understand how our thinking impacts our behavior, which can in turn provide insight into psychological disorders and their treatment.

Assessment Tasks
<i>List of common formative and summative assessments.</i>
<p><b><u>Formative Assessment(s):</u></b></p> <ul style="list-style-type: none"> <li>-Memory Vocabulary Quiz</li> <li>- Language Quiz</li> <li>-Retrieval Quiz</li> <li>-Storage Quiz</li> <li>-Thinking and Language Quiz</li> </ul> <p><b><u>Summative Assessment(s):</u></b></p> <ul style="list-style-type: none"> <li>-Unit 5 Free REsponse Question</li> <li>-Full Unit 5 Vocabulary</li> <li>-Cognition Project</li> <li>-Unit 5 Summative</li> </ul>

<b><u>Learning Experiences</u></b> Add additional rows below as needed.		
Objective or Content	Learning Experiences	<b>Personalized Learning and Differentiation</b>  All information included by PLC in the differentiation box is the responsibility and ownership of the local school to review and approve per Board Policy IKB.
Introduction to Memory	Open with Discussion on life with no Memory Video on Clive Wearing. PPT on Studying and Encoding Memory Compare and contrast various cognitive processes	Read Storing and Retrieving Memories  Teacher centered notes with guided notes and class discussion built in.

	<p>Describe and differentiate psychological and physiological systems of memory Identify the contributions of key researchers in cognitive psychology (Chomsky, Ebbinghaus, Kohler, Loftus, Miller)</p> <p>Simulation similar to Sperling Study.</p>	
<p>Encoding</p> <p>Storing</p> <p>Retrieving</p>	<p>Outline the principles that underlie construction and encoding of memories.</p> <p>Outline the principles that underlie effective storage of memories.</p> <p>Describe strategies for retrieving memories</p> <p>Activity- Making Material Meaningful.</p> <p>Activity- Pegword- Grocery List.</p> <p>Activity- Method of Loci.</p>	<p>Pre-teach academic vocabulary through flipped learning homework</p>
Forgetting and Memory Distortion	<p>Open with Long Term Potentiation (LTP)</p> <p><a href="https://www.khanacademy.org/test-prep/mcat/behavior/learning-slug/v/long-term-potentiation-and-synaptic-plasticity">https://www.khanacademy.org/test-prep/mcat/behavior/learning-slug/v/long-term-potentiation-and-synaptic-plasticity</a></p> <p>Activity- Rumor Chain Memory CONstruction.</p> <p>Describe strategies for memory improvement and typical memory errors.</p> <p>Ted Talk- Elizabeth Loftus with Guided Notes- How REliable is your Memory <a href="https://www.ted.com/talks/elizabeth_loftus_how_reliable_is_your_memory?language=en">https://www.ted.com/talks/elizabeth_loftus_how_reliable_is_your_memory?language=en</a></p> <p><b>Notes- PPT Storing and Retrieving Memories.</b></p>	<p>Read Forgetting, Memory, Construction, and Impairing Memory</p> <p>Self-directed learning by way of problem-based learning</p>
Biological Bases of Memory	<p>Open With The Mind on Netflix 15 Minutes - section on Memory. Discuss False Memory well.</p>	<p>Individual student choice and listening processing the Wealthy Desert Dweller.</p>

	Describe and differentiate psychological and physiological systems of short- and long-term memory.	Brain Teaser Problem Solving Activity- the Buddhist Monk.
Introduction to Thinking and Problem Solving	<p>Identify problem-solving strategies as well as factors that influence their effectiveness.</p> <p>List the characteristics of creative thought and creative thinkers.</p> <p>Thinking powerpoint</p> <p>Ted Talk: How schools kill creativity</p>	<p>Read Thinking Section</p> <p>Extended learning via Crash course and Edpuzzle videos</p>
Biases and Errors in Thinking	Identify problem-solving strategies as well as factors that create bias and errors in thinking.	<p>Table talks.</p> <p>Student voice and choice</p>
Introduction to Intelligence	<p>Intelligence PPT</p> <p>Define intelligence and list characteristics of how psychologists measure intelligence.</p> <ol style="list-style-type: none"> <li>1. Abstract versus verbal measures</li> <li>2. Speed of processing</li> <li>3. Fluid intelligence</li> <li>4. Crystallized intelligence</li> <li>5. Flynn effect</li> <li>6. Stereotype threat</li> <li>7. Savant syndrome</li> </ol> <p>Discuss how culture influences the definition of intelligence</p> <p>Compare and contrast historic contemporary theories of intelligence.</p> <ol style="list-style-type: none"> <li>1. Charles Spearman</li> <li>2. Howard Gardner</li> <li>3. Robert Sternberg</li> </ol> <p>Identify the contributions of key researchers in intelligence research and testing.</p> <ol style="list-style-type: none"> <li>1. Alfred Binet</li> <li>2. Francis Galton</li> <li>3. Howard Gardner</li> </ol>	<p>Scaffolded learning via chunking information</p> <p>read What is Intelligence</p> <p>read Assessing Intelligence</p> <p>Pre-teach academic vocabulary through flipped learning homework</p>

	<ol style="list-style-type: none"> <li>4. Charles Spearman</li> <li>5. Robert Sternberg</li> <li>6. Lewis Terman</li> <li>7. David Wechsler</li> </ol> <p>Reification Activity-abstract, immaterial concepts as concretes.</p> <p>Intelligence War Discussion- is intelligence one general mental ability. (Spearman, Thurstone, Physical Athleticism, Gardner, Sternberg, Emotional)</p> <p>Marshmallow Test: <a href="https://www.youtube.com/watch?v=QX_oy9614HQ">https://www.youtube.com/watch?v=QX_oy9614HQ</a></p>	
Psychometric Principles and Intelligence Testing	<p>Explain how psychologists design tests, including standardization strategies and other techniques to establish reliability and validity.</p> <p>Interpret the meaning of scores in terms of the normal curve.</p> <p>50 Minute Documentary Battle of the Brains: <a href="https://vimeo.com/455616344">https://vimeo.com/455616344</a></p> <p>Describe relevant labels related to intelligence testing.</p> <ol style="list-style-type: none"> <li>1. Gifted</li> <li>2. Intellectual disability</li> </ol>	<p>Read The Dynamics of Intelligence</p> <p>Table talks.</p>
Components of Language and Language Acquisition	<p>Language PPT- Structural Components of Language.</p> <p>Video Clip for Prelinguistic and Linguistic Stages.</p> <p>Synthesize how biological, cognitive, and cultural factors converge to facilitate acquisition, development, and use of language.</p> <p>Debate the appropriate testing practices, particularly in relation to culture-fair test uses.</p> <p>Four open-ended questions discussed after Secret of the Wild Child:</p> <p>Genie: <a href="https://topdocumentaryfilms.com/genie-secret-wild-child/">https://topdocumentaryfilms.com/genie-secret-wild-child/</a></p> <p>Activity- "Iadle Rat Rotten Hut"- <a href="https://www.youtube.com/watch?app=desktop&amp;v=BLAtTDSH6-Q">https://www.youtube.com/watch?app=desktop&amp;v=BLAtTDSH6-Q</a></p>	<p>Read Language and Thought</p> <p>Class Discussion on today's meet while viewing a documentary.</p>

Content Resources
AP Classroom, Barron's AP Psychology, Myers Understanding Psychology 9th Edition. Ppt and Prezi Notes, Quizlet, Kahoot, Quizziz and Blookets review for all units. Request for Myers AP Psychology Third Edition.