

SCINNOVA
VIII

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STUDY GUIDE

Are you ready to unlock the mysteries of the human mind? Welcome to the psychology module, where we'll journey into the fascinating world of thoughts, emotions, and behavior. Together, we'll explore what drives our decisions, how we connect with others, and the powerful forces shaping our actions. Through interactive activities, eye-opening experiments, and captivating stories, you'll gain insights into the complexities of the human experience. Whether it's understanding what motivates people or discovering the hidden patterns of the mind, this module promises to be a thrilling, eye-opening adventure into the science of being human. Let's dive in—you won't look at the world the same way again!

Round 1:

Dive into the captivating world of memory, perception, and cognition in this round! This thrilling, hands-on experience will challenge your problem-solving skills as you navigate a gripping mystery with unexpected twists and turns. From decoding cryptic clues to tackling engaging psychological challenges, every moment promises excitement and discovery. Get ready to explore how our minds work under pressure, uncover the secrets of decision-making, and learn how memory can be both a gift and a puzzle.

The content we expect you to know:

1. Understanding memory processes (e.g encoding, storage, image recall, and retrieval - Melton, 1963).
2. Cognitive biases and decision-making.
3. Perception's role in interpretation.
4. Behavioral conditioning (e.g., Pavlov's experiments).
5. Neuroplasticity and brain reorganization.

Round 2:

Engage in an exciting challenge where you'll delve into the intricacies of the human mind by designing your own psychological experiment. This round emphasizes hands-on application, critical thinking, and a deeper exploration of key psychological concepts. Analyze, interpret, and apply psychological theories as you navigate real-world scenarios that highlight how we think, remember, and make decisions.

The content we expect you to know:

Memory and Recall: The role of cues and fragmented information in memory.

Cognitive Biases: Understanding the psychological impact of uncertainty and stress on judgment.

Developing data collection and analysis plans while maintaining scientific rigor.

Neural mechanisms: Key processes in how the brain supports cognition and behavior.

Psychological Disorders: An overview of common psychological diseases and their characteristics.



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