

Objective

By the end of this lesson, the student will have a deeper understanding of the endocrine system, its functions, and how it relates to character abilities in Genshin Impact. Additionally, the student will apply mathematical reasoning to analyze data related to hormone functions and explore historical perspectives on the discovery of the endocrine system.

Materials and Prep

- Paper and pencil for notes and calculations
- Access to Genshin Impact for reference
- Basic information about the endocrine system (can be provided verbally)
- Simple math problems related to hormone levels
- Historical context about the endocrine system's discovery

Before the lesson, familiarize yourself with the basic functions of the endocrine system and select a few characters from Genshin Impact that have abilities related to healing or buffs, which can be linked to hormonal functions.

Activities

• Character Analysis:

The student will choose a character from Genshin Impact and analyze their abilities. They will compare these abilities to different hormones in the endocrine system. For example, they could link a healing character to the role of insulin in regulating glucose levels.

• Math Challenge:

Provide the student with a series of math problems that involve calculating hormone levels based on fictional scenarios. For example, if a character uses a healing ability, how much health do they restore? This can be tied to understanding the balance of hormones in the body.

• Historical Timeline:

The student will create a timeline of key discoveries in the study of the endocrine system. They will research important figures and events, such as the discovery of insulin and its impact on medicine, and relate these events to the lore of Genshin Impact.

Talking Points

- "The endocrine system is like a network of messengers in your body, sending signals through hormones to regulate functions like growth, metabolism, and mood."
- "In Genshin Impact, many characters have abilities that can be compared to hormones. For example, the character Barbara heals allies, similar to how insulin helps regulate energy levels in the body."
- "Mathematics can help us understand how much of a substance is needed in the body for balance. For instance, if a character heals for 20% of their maximum health, we can calculate how much that is based on their total health."
- "The discovery of the endocrine system has a rich history. For example, did you know that insulin was discovered in 1921, and it changed the way we treat diabetes?"
- "By understanding the endocrine system, we can better appreciate how our bodies function and how this relates to the fantastic abilities we see in games like Genshin Impact."