## Hormones and Homeostasis

Period:

## Background information:



Endocrine glands release chemical messengers (hormones) that help regulate function throughout the body. Sometimes these glands fail to respond to normal feedback loops, resulting in a disruption of homeostasis. For example, the pituitary gland, located in the brain, secretes human growth hormone. If cells in the gland produce too much of this hormone, a person will continue to grow far above average height. The result is a condition known as gigantism, as

If the cells produce too little of the hormone, a person will grow to far less than average height. This condition is known as dwarfism. As shown in the image in the image to the right.



## Problem:

How does the disorder of a particular endocrine gland affect the rest of the body?

shown in the image on the left.

Research: Circle which disorder was assigned to you

Hypothyroidism	Acromegaly	Polycystic ovary	Cushing's syndrome	Addison's disease
		syndrome (PCOS)		

## Answer the following questions:

- 1. Describe the function of the gland and the hormones it releases.
- 2. What happens to the functioning of the gland in the disorder?
- 3. How does the disorder affect the rest of the body?
- 4. How is the disorder diagnosed?
- 5. What treatments or lifestyle changes are necessary?
- 6. What are the long-term health effects if the disorder remains untreated?