

Topic: Homeostasis Worksheet

Summary: Students will answer questions on positive and negative feedback loops.

**Goals & Objectives:** Students will be able to differentiate between positive and negative feedback loops. Students will be able to describe how feedback mechanisms help to maintain homeostasis.

**Standards:** CA Biology *9c. Students know* how feedback loops in the nervous and endocrine systems regulate conditions in the body. *9i. Students know* how hormones (including digestive, reproductive, osmoregulatory) provide internal feedback mechanisms for homeostasis at the cellular level and in whole organisms.

## Time Length: 30 minutes

**Prerequisite Knowledge:** Students have been introduced to the concept of feedback mechanisms and homeostasis.

## Materials:

- Photocopied handouts
- Biology textbook

Accommodations: Students with an IEP can take the handout home if they need extra time, work with a partner, and/or answer the odd questions.

## **Evaluation:**

Questions 1-6 are worth 2 points each for a total of 12 points. Question 7-12 are worth 1 point each for a total of 6 points. The assignment is worth a total of 18 points.

Name:	Row:
Date:	Period:
Homeostasis Worksheet	
1. Define homeostasis in your own words.	
2. Explain in your own words about negative feedback mechanisms.	_
3. Explain in your own words about negative feedback mechanisms.	_
4. Would you use a positive or negative feedback mechanism for clotting blood when you get a cut your skin or blood vessel? Describe why.	_
5. Would you use a positive or negative feedback mechanism for regulating body temperature? Describe why.	_
6. Does a positive or negative feedback mechanism cause the body to have a fever? Describe why.	-
Identify questions 7-12 as an example of Positive or Negative feedback.	_
7 feedback tries to maintain homeostasis.	
8 feedback continues to disrupt homeostasis.	
9 feedback inhibits hormones.	
10 feedback continues to strengthen the stimulus.	
11 feedback is used when the hormone oxytocin is released to intensify the contractions that take place during childbirth.	
12 feedback is used when the kidneys remove H+ ion from the blood when the pH of the blood becomes too acidic.	