Name	Date	Hour	
Homeostasis - Po			orksheet ndf
BILL #50, write #1 & 2 For 1-2, circle the appropriate term. 1. In NEGATIVE feedback systems a controlled condition.			·
In POSITIVE feedback systems, a controlled condition	, the response (rever	ses or strengthens) a	change in
In lab groups, decide if the scenario leads you to your decision, and dr (a) If blood temperature rises to the brain sense the change. Turn send signals to the blood more blood flows close to the body and it cools down.	raw a picture of the p oo high, specialized n These neurons signal o d vessels of the skin.	henomenon: eurons in the hypotha other nerve centers, w As these blood vessel	lamus of which in s dilate,
This is an example of		feedback.	
In lab groups, decide if the scenario leads you to your decision, and dr (b) If the blood temperature fal of the brain sense the change (those supplying the skin) to in the body and less heat is lotter. This is an example of	raw a picture of the p lls too low, specialized e and signals are sent constrict them. Ward ost from the surface	henomenon: d neurons in the hypot to the cutaneous art m blood is then retaine and it increases temp	halamus eries ed deeper
In lab aroung decide if the economic			

In lab groups, decide if the scenario indicates negative or positive feedback, wording leads you to your decision, and draw a picture of the phenomenon:

(c) Part of the complex biochemical pathway of blood clotting is the production of an enzyme that forms the matrix of the blood clot. This has a self- catalytic, or self-accelerating effect, so that once the clotting process begins, it runs faster and faster until, ideally, bleeding stops.

This is an example of ______ feedback.

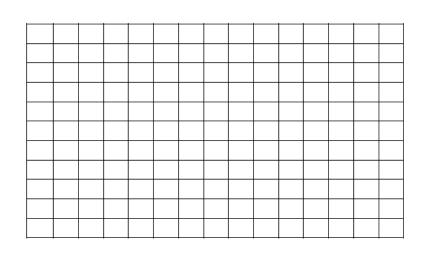
 In lab groups, decide if the scenario indicates negative or positive feedback, wording leads you to your decision, and draw a picture of the phenomenon: (d) During childbirth stretching of the uterus triggers the secretion of the hormone oxytocin, which stimulates uterine contractions and speeds up labor. This is an example of feedback. 		
This is an example of	тееараск.	
leads you to your decision, and draw a (e) The walls of arteries stretch in the Baroreceptors located in these we to the brain, which in turn slows of blood through the arteries causes.	he presence of high blood pressure. alls also stretch and as a result, a signal is sent down the body's heart rate. This slows the flow using less pressure. As BP drops the d a signal is sent to speed up the heart rate.	
This is all example of		
leads you to your decision, and draw a (f) When you have an allergic reaction say, links the amount of immunogle with allergies, to the number of in	n, like hayfever, the biochemical loop, scientists obulin E (IgE) antibody, overabundant in people mmune cell IgE receptors, which, upon exposure biological events that cause wheezing, sneezing, is time of year.	
leads you to your decision, and draw a (g) When you get exposed to the in bind to the pathogen; a macrophage also presents antigen on its surface called cytokines. This will activate l	fluenza virus, an antigen that it recognizes, they then engulfs the pathogen; the macrophage and secretes 5 different chemical messengers lymphocytes, initiate the inflammatory response, ist a few of the events that would take place in	

Homeostasis - Positive & Negative Feedback

For the following graphs, make sure you LABEL YOUR AXES. Graph time on the horizontal axis (the x-axis)

1. A man with heart disease has his blood pressure monitored closely. Heart disease has been linked to increased blood pressure. Normal is 130 mm Hg)

TIME	BP (mm Hg)
	(111111118)
7 am	200
8 am	190
9 am	170
10 am	150
11 am	130
12 noon	110
1 pm	70

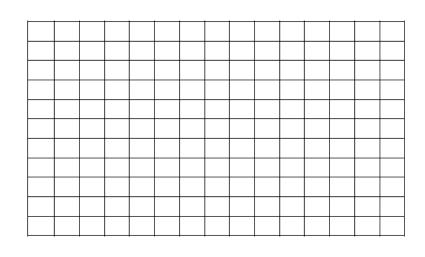


Claim: This is an example of feedbac	n example of feedba	CK.
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Evidence and Reasoning: (data from the table/graph with EXPLANATION)

2. A woman is being tested for diabetes mellitus. Her blood glucose is measured over a period of time. Recognize that the normal range for blood glucose is 70-110 m/dl.

TIME	Blood Glucose mg/dl
0	100
1 hour later	120
2 hours later	110
3 hours later	90
4 hours later	80
5 hours later	85



Claim: This is an example of ______ feedback.

Evidence and Reasoning: (data from the table/graph with EXPLANATION)