Class:



Student worksheet

Name:

3.7 Homeostasis regulates through negative feedback

Pages 56-57 and 191

Homeostasis	
1	What is homeostasis?
2	When does negative feedback occur?
3	Conversely, what would positive feedback do?
4	Outline the negative feedback mechanism that the body experiences when it is too cold.
5	Outline the negative feedback mechanism that the body experiences when it is too hot.
6	What would be the effect of positive and negative feedback in the following circumstances? a The body becomes too hot. • positive feedback

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	negative feedback
	b The body has too much glucose in the blood:
	positive feedback
	negative feedback
7	What would happen to the body if it was unable to release the hormones which control homeostasis?
8	How are glucose molecules able to provide you with energy?
9	Why is too much glucose in the blood unhealthy?



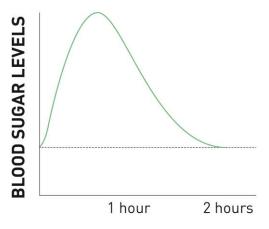
Class:



Extend your understanding

Name:

After you eat, sugar moves from your food and into your blood, essentially giving you a sugar high, which you interpret as having more energy. Answer the questions under the following graph.



TIME AFTER EATING

- When do you have the most energy?
- When do you have the least energy?
- When blood sugar levels are too low, how do you feel?
- What should you do when they are too low?
- If this graph represents blood sugar levels after eating a banana, on the graph, draw what your blood sugar levels would look like after eating a Mars Bar.
- Why do doctors recommend that you eat slow-release foods?
- What happens when you eat sugary foods? What impact does this have on your energy levels?