Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_ # \_\_\_\_\_\_\_\_\_\_\_\_



**CHALLENGE QUESTION:** Before hibernation, bears feed on large amounts of food and, as a result, put on a significant amount of weight. They can add up to 5 inches of fat to their bodies. Some types of bears can weigh up to 1000 pounds! During hibernation, the metabolism of bears decreases significantly. A bear’s resting heart rate can drop from 40 beats per minute (bpm) to just 8 bpm. This process helps save energy for a long period of inactivity. During these months, the bear still loses about 40% of its body weight. So, a 1000-pound bear can lose 400 pounds of weight during hibernation.

Knowing that all matter transformations must obey conservation laws and using what you have learned about inputs, outputs, and chemical reactions explain **what happened to the matter that the bear lost. Where did it go? Where did all that matter come from before it started hibernating in the first place?**

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period \_\_\_\_\_\_\_ # \_\_\_\_\_\_\_\_\_\_\_\_



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Hibernating Bear Final Thoughts

Class Final Thoughts

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Group’s Final Thoughts

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