

Question 1: How many Calories are in a serving of Chili's Chocolate Molten Lava Cake that contains 158 grams of carbohydrate, 62.0 grams of fat and 12.0 grams of protein?

Question 2: Fill in the table below with the six phase changes and if each one is exothermic or endothermic.

Phase Change	Endothermic or Exothermic

Question 3: Draw a reaction diagram for an endothermic reaction.

Question 4: Draw a reaction diagram for an exothermic reaction.

Question 5: Fill in the blanks.

An exothermic reaction _____ (gives off / absorbs) energy and has a _____ (positive / negative) ΔH .

An endothermic reaction _____ (gives off / absorbs) energy and has a _____ (positive / negative) ΔH .

Increasing the temperature of a chemical reaction will _____ (increase / decrease) the rate of reaction. Briefly explain why.

Adding a catalyst to a chemical reaction will _____ (increase / decrease) the rate of reaction. Briefly explain why.

Decreasing the concentration of a reactant in a chemical reaction will _____ (increase / decrease) the rate of reaction. Briefly explain why.