Name	Period	Date

CER: CLaim, EVIDence, Reasoning

Writing Prompt



CHEMICAL REACTIONS

Background: Natural Gas is a fuel that is used for Heating and cooking in many homes, schools, and office Buildings. It is composed of almost pure methane ch4 and Burns with a hot, blue flame. The chemical equation is shown below:

CH₄ + 2O₂→CO₂ + 2H₂O

QUESTIONS: DESCRIBE IN DETAIL THE BURNING OF METHANE AS A CHEMICAL REACTION. BE SURE TO INCLUDE THE FOLLOWING INFORMATION IN YOUR DESCRIPTION:

- 1. HOW can you tell from the equation that this is a **CHEMICAL rEACTION** and not just a **PHYSICAL CHANGE**.
- 2. CITE **TWO OBSERVATIONS** THAT WOULD LIKELY INDICATE THAT A CHEMICAL REACTION IS OCCURRING.
- 3. CLassify the reaction as **exothermic** or **endothermic** and cite evidence for your choice.
- 4. IDENTIFY THE **reactants** and the **products** of the reaction
- 5. EXPLAIN HOW THE **CHEMICAL EQUATION** SHOWS THAT **THE LAW OF CONSERVATION OF MASS** IS SATISFIED IN THIS reaction.

CLAIMS: (Answer the 5 Questions.) 25 Points

Name	Period	_ Date
EVIDENCE: WHAT EVIDENCE IS CLAIMS? WHAT DO YOU KNOW		PORT YOUR
REASONING: (EXPLAIN WHY Y CLAIM USING PARAGRAPH FOR POINTS		
TERMS TO USE AND UNDERLINE PHYSICAL CHANGE, TWO OB endothermic, reactants, equation, the Law of Cor	servations, exc products, cher	отнеrmic, micaL

90 POINTS TOTAL