

2.04 Thermal Energy and Chemical Change Lab Report

Instructions: In this engineering lab, you will build trains to reach the finish line without crashing. You will need to repeat tests of your device to make sure it does not need to be redesigned or improved. Complete all the areas shaded in purple.

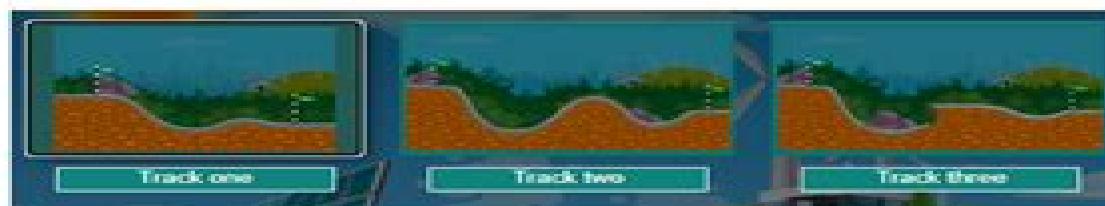
Note: If you cannot complete this lab as directed, please contact your instructor for assistance.

Student Name	Yaakov
Instructor	Ms. Gomez
Date	09/28/23

Part 1: Thermal Energy

Lab Objective:

The goal of the lab is to build steam engine trains that can carry cargo to the end of three different tracks.



Part 2: Energy Engineers

To create working trains, you will need to learn about the different parts that power the train. Take notes on each part.

	Is this an endothermic or exothermic process?
Evaporative cooler	This device cools the air through the evaporation of water. Evaporation is a phase change from water to water vapor. It is an endothermic process because it absorbs heat from the outside air. Usually, an electric source runs the fan, brings in the hot air, and blows the cool water vapor out.
Woodburning heater	A wood-burning heater burns wood for fuel in order to heat the air around it. Wood burning is an exothermic chemical reaction because it releases heat and changes the wood to a new substance.
Steam engine	Inside a steam engine, a fire ignites coal, which heats a boiler full of water above it. The heated water turns into steam that is pushed into a cylinder. This causes the piston inside the cylinder to move, which spins the wheels of the engine. Heat is released during the chemical reaction of burning coal, so this is an exothermic reaction. The physical conversion of water to steam due to the absorption of heat is an endothermic process.

Lab Report On Chemical Change

Peipei Pang



Lab Report On Chemical Change:

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Table of Contents Lab Report On Chemical Change

1. Understanding the eBook Lab Report On Chemical Change
 - The Rise of Digital Reading Lab Report On Chemical Change
 - Advantages of eBooks Over Traditional Books
2. Identifying Lab Report On Chemical Change
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Lab Report On Chemical Change
 - User-Friendly Interface
4. Exploring eBook Recommendations from Lab Report On Chemical Change
 - Personalized Recommendations
 - Lab Report On Chemical Change User Reviews and Ratings
 - Lab Report On Chemical Change and Bestseller Lists

5. Accessing Lab Report On Chemical Change Free and Paid eBooks
 - Lab Report On Chemical Change Public Domain eBooks
 - Lab Report On Chemical Change eBook Subscription Services
 - Lab Report On Chemical Change Budget-Friendly Options
6. Navigating Lab Report On Chemical Change eBook Formats
 - ePub, PDF, MOBI, and More
 - Lab Report On Chemical Change Compatibility with Devices
 - Lab Report On Chemical Change Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Lab Report On Chemical Change
 - Highlighting and Note-Taking Lab Report On Chemical Change
 - Interactive Elements Lab Report On Chemical Change
8. Staying Engaged with Lab Report On Chemical Change
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Lab Report On Chemical Change
9. Balancing eBooks and Physical Books Lab Report On Chemical Change
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Lab Report On Chemical Change
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Lab Report On Chemical Change
 - Setting Reading Goals Lab Report On Chemical Change
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Lab Report On Chemical Change
 - Fact-Checking eBook Content of Lab Report On Chemical Change
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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