

## 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.*

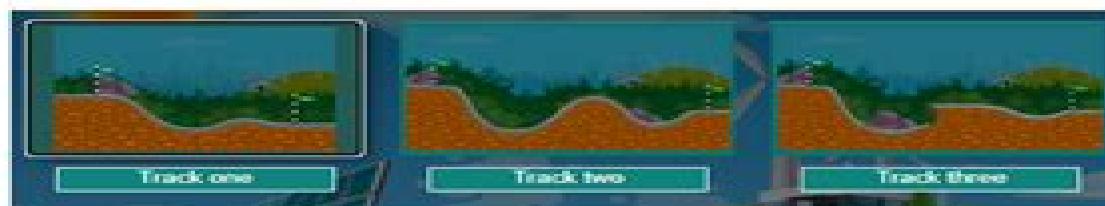
**Note:** If you cannot complete this lab as directed, please contact your instructor for assistance.

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

**Robert R. Redfield**



## **Lab Report On Chemical Change:**

## **Lab Report On Chemical Change** Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Lab Report On Chemical Change**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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