

# LEARNING JOURNEY

## Chemistry



### C7 – Energy Changes (Trilogy and Separates)

Year 10 Autumn Term

This module continues your learning journey from previous learning in Chemistry about the bonding and chemical reactions.

You will now look at how energy changes when bonds break in the reactants and bonds are made in products. This will then explain why reactions are either exothermic or endothermic as you will have learnt in Key Stage 3 Science.

#### Energy Changes in Reactions

#### Exothermic / Endothermic

You will learn that all reactions are exothermic (give out energy) or endothermic (take in energy).

#### Required Practical

You will develop a method to test a series of reactions and identify them as endothermic or exothermic.

#### Enthalpy Changes

You will calculate the energy changes in reactions using supplied data to identify if a reaction is exothermic or endothermic.

**TUDOR HABITS AND VALUES:** You will develop the Tudor Habit of Process not Product as you will have to invest in calculation stages of enthalpy calculations.

#### **VOCABULARY:**

Exothermic  
Endothermic  
Activation Energy  
Enthalpy Change