

## Chemistry Engineering Challenge Project

Your challenge is to design, plan, build, test, and reengineer (pending the test results) a device that by means of a chemical reaction (NOT insulation) does ONE of the following:

- Heats something
- Cools something
- Maintains an elevated temperature (keeps something hot)
- Maintains a lowered temperature (keeps something cool)

Additionally, your device must serve a specific purpose. Your device's purpose canNOT be hand warming or emergency ice packs since we already studied those devices.

You may work individually or in groups of up to four students. Your group is responsible for bringing in all the supplies necessary for your project. Points will be awarded based on:

- Use of class time
- Creativity
- Ability of the device to do what it was designed to do
- Length of time it can maintain the elevated or lowered temperature

You will have class time to work on this every class until the due date. A day: 12/14; B day: 12/15. Your device is DUE at the **beginning** of class on the due date!

\*\*\*\*\*

Team members: \_\_\_\_\_

Brief summary of device: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Materials:

Sketch of the Device:

Testing Data (attach additional sheets as needed):