

Intro to Chemistry 2.2: Changes in States of Matter MINI PROJECT

For this MINI PROJECT, you are to select ONE change of state (evaporation, sublimation, condensation...) and show how you would/did explain this science concept to another person. This may be a real person or a hypothetical character. You may show the evidence of your explanation in a format as suggested in the table below (these are just suggestions!).

Choose one specific change of state to work on for this Introduction to Chemistry 2.2 MINI project. They will be due on _____. We will present these in class on the day they are due. Be sure to include all the required elements of the project! If you have any ideas for alternative projects, see Mrs. Dangerfield for topic or format approval! Here are some suggestions:

ROLE	AUDIENCE	FORMAT	TOPIC
Chef	Live Audience at The Taste of Chicago	Cooking Demonstration	The Power of Steam: Creating Perfect Steamed Vegetables
Stage manager	New Roadie/Crew Member	Email/letter	How Dry Ice can be used for Maximum Visual & Dramatic Effect
Ice cream company	Potential Customer	Magazine Advertisement	The Solid Facts: Why our Ice Cream Stays Frozen Longer
Retired Airline Pilot watching Chicago Air/Water Show	His Son	Dialog	What makes those white trails behind a flying plane?
Meteorologist	Television Viewers	Weather Report	Ask Tom Skilling: How Precipitation can Damage your Car? Story at 10!

Project Criteria

All Projects Must Include:

- the names of the phases relative to your topic
- molecule configuration/arrangement of both phases (beginning phase and ending phase)
- proper scientific vocabulary and definitions
- how energy is transferred during the change in state
- how does your change of state relate/compare to two other changes in states of matter? Compare yours specifically to two other changes in state of your choosing
- A presentation to the class

Changes in States of Matter: RAFT Rubric

Presenter Name: _____

Change of state being described: _____

Criteria	In Progress (0 - 1 points)	Meets Expectations (2 - 3 points)	Exceeds Expectations (4 - 5 points)
Understanding of Content	Does not describe the change in state. Does not compare to another change in state.	Defines the change in state required for the chosen project topic. Compares to one other change of state.	Defines the change in state and compares to two other changes of state.
	Does not describe the molecular configuration and/or the transfer of energy.	Describes the molecular configuration and/or the transfer of energy. Some information is not accurate or is missing.	Accurately describes the molecular configuration for all states involved in the change and accurately describes the transfer of energy.
Organization of Ideas	Missing all or most definitions or vocabulary terms.	Includes most definitions and related vocabulary terms	Includes accurate and appropriate definitions for related vocabulary terms.
	Missing and/or misinterpreted information. Information does not reveal an understanding of the material.	Information presented reveals a basic understanding of the changes in states of matter.	Information presented reveals a sophisticated understanding of the changes in states of matter.
Communication of Ideas	Ideas are disconnected and lack transitions.	Ideas flow; incorporates transitions when presenting different perspectives.	Ideas flow smoothly; incorporates transitions when presenting different perspectives.
	Attempts to write using a particular format, but may be missing format features or includes information that detracts from the purpose of the assignment.	Uses format effectively to write for a specific purpose.	Uses format effectively and creatively to write for a specific purpose.
Communication of Ideas	Ideas are vague because writing lacks descriptive details and precision.	Ideas are interesting because writing contains precise descriptions and details.	Ideas are compelling and engaging because writing contains vivid, creative descriptions and sensory details.
	Writing does not show an awareness of audience.	Writing shows an awareness of audience.	Writing reflects a keen awareness of audience.

Points per Category: _____

Total Points: _____/40