**Chemistry Video Project**

Honors Chemistry

**Purpose:**

 1) To Assess students’ conceptual understanding of the major areas of chemistry

 covered this year up to date: Matter, Chemical Foundations(elements, atoms,

 and ions), Nomenclature, Chemical Reactions, Reaction in Chemical Solutions,

 Chemical Composition, Chemical Quantities, Energy, Modern Atomic Theory,

 Chemical Bonding.

 2) To provide students a means to demonstrate their creativity and individuality.

 3) To demonstrate practical applications of chemistry outside the classroom.

**Procedure:**

 1) Grouping: You are allowed to work with anyone in your class period…groups are

 LIMITED to three(3) people. (But may be less)

 2) Someone must be smarter after watching your video.

 3) Create a video of one of the above chemistry topics. **(Teacher approval**

 **required)** Choose a subtopic in one of these chapters that interests you.

 4) At least **10 chemistry facts** about the chosen topic must be incorporated in

 the video. These 10 facts must be written in list form and turned in with the

 rubric by the due date.

 5) Choose from a suggestion list of video-types for creating your video. You may

 opt to do a video-type not on the suggestion list.

 6) Turn in final video via Canvas.

 7) All members must participate in the project, including typing an individual

 paragraph (no less than five sentences) describing your role in the overall

 project.

 8) By the due date, the video must be submitted and all partners collectively

 turn in their paragraphs, stapled, along with one copy of the rubric stapled on

 top. (Remember to include the list of 10 chemistry facts.)

 9) **Due date:** April 20th, 2017

**Requirements:**

 1) Students are to demonstrate proper safety, including vehicle safety at all

 times. (ie. use of safety goggles etc.)

 2) Video must be rated for all audiences (ie. “G” movie rating).

 3) Include a “Title” at the beginning of the video stating your topic, and a “cast

 list” at the end of the video. Please include only student’s first name for

 casting info. (Music may be added to enhance effect)

 4) Length of video should be 3-6 minutes. It is not to be a “talking head”

 (lecture) presentation. You will be teaching a topic invoking your “creative

 juices”.

**Suggestion List:**

*What follows are suggestions of types of videos to make. This is not an exclusive list.*

~music video (may create an original song or use an existing song. If using an

 existing song, lyrics must be self-created or cut and pasted from

 existing song to fit the topic. You may not just find a chemistry song

 and make an music video to go with it!)

~stop motion (no limitation, may choose to use felt, lego characters, actions

 figures, food, construction paper etc.)

~claymation (watch deadline)

~computer animation ex. google slides, google draw, or other animation program

~movie trailer

~story telling

~Mythbuster style

~interview of a chemist

~mock interview

~lip sync

~students acting

**Tips and Pointers for Success:**

\*add music

\*use good light

\*keep your front side to the camera while talking.

\*speak clearly and slowly

\*use tripod to keep camera still

\*keep from making the viewer dizzy by moving camera slowly

\*most point and shoot cameras can shoot decent video, better than most cell

 phones

\*Windows and Mac based PCs have free built-in movie maker programs (iMovie and

 Windows Movie Maker)

\*make sure to get the point across

\*use off screen cue-cards, or a script

\*edit out bad parts/mess ups/mistakes

\*show final video to a parent and ask them what they think

\*have fun!!!

Group Members Names \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Rubric**

***Content (30)***

Title/Credits \_\_\_\_\_/4

Safety \_\_\_\_\_/4

Appropriate for all audiences \_\_\_\_\_/4

Length (3-6 min) \_\_\_\_\_/4

Topic has direct correlation to subjects covered this year \_\_\_\_\_/4

Contains at least 10 chemistry facts \_\_\_\_\_/10

***Accuracy (30)***

Chemical principles stated correctly \_\_\_\_\_/10

Formulas, names given correctly, all reactions balanced correctly \_\_\_\_\_/10

Theoretical information presented accurately \_\_\_\_\_/10

***Execution (20)***

Clear image \_\_\_\_\_/5

Camera proximity (too close/too far away from person speaking) \_\_\_\_\_/5

Editing smooth and in order \_\_\_\_\_/5

Audio volume/speed (too loud/soft/fast/slow) \_\_\_\_\_/5

***Creativity (15)***

Video interesting to watch \_\_\_\_\_/5

Special effects \_\_\_\_\_/5

Nice quality (this is VERY subjective, impress me) \_\_\_\_\_/6

***Written Expression (5)***

Paragraph with description of role in project \_\_\_\_\_/4

***Total*** **\_\_\_\_\_/100**