ASTRONOMY CULMINATING TASK

Astronomy Photo Story Final Due Date: ________________________________

CURRICULUM EXPECTATIONS: OE: D1, D2, D3; SE: D1.1, D1.2, D2.1, D3.2, D3.3, D3.5, D3.6

LEARNING GOALS:

• Students will research topics relating to astronomy and the importance of it to society.
• Students will create and prepare a script for a photo story to explain the researched topic.
• Students will create a photo story to put together pictures and text to tell an instructional story.
• Students will be able to demonstrate written, visual, and/or oral presentation skills to communicate scientific knowledge.
• Students will be able to acquire and synthesize scientific information from a variety of sources.

WHAT TO DO:

☐ Decide what topic you will research (first come first serve basis)
☐ Research topic in detail and create rough notes that relate to that particular topic
☐ Create photo story accompanied with a script
☐ Narrate a story line based on pictures posted on a photo story (iMovie or Photo story)
☐ Create 4-5 multiple choice questions from your presentation and submit
☐ Create summary sheet of your presentation for the class (include m/c questions on it too)

SOFTWARE TO USE:

○ How to use Photo Story 3: http://www.youtube.com/watch?v=s0oH9qE9qEY
○ How to use Window Movie Maker: http://www.youtube.com/watch?v=MiVyqQmCuw8
○ How to use iMovie (for Macs): https://www.youtube.com/watch?v=lfX0ptAA10Q
○ Or other software that needs to be approved by your teacher

SUBMISSION OF WORK:

☐ Create an account and share from Google Drive/Dropbox/OneDrive
○ Create a folder and share with teacher – send invite to nikolas.zboralski@tcdsb.org
○ IF IT IS NOT SENT/SHARED BY DUE DATE, IT IS CONSIDER LATE
○ When sharing to your teacher, include the following:
  ▪ presentation (mp4 format), study sheet (.docx) with multiple choice questions (and answers)

RESOURCES TO HELP WITH RESEARCH:

3. NASA (USA) - https://www.nasa.gov
7. ONScience Textbook (Astronomy Unit)
PROJECT REQUIREMENTS

**STEP 1: CREATE A 1 PAGE SUMMARY SHEET**
- Summarize (in own words) your research into a 1 page study sheet: **DO NOT COPY, USE OWN WORDS**
- Include:
  - Glossary of terms and definitions along with images, diagrams
  - Key points on your topic that students should be aware of
- Organized and neat
  - Use appropriate text size, headings, subheadings, bullets, pictures
  - Format it neatly, include your name and images
- Multiple Choice Questions
  - Create 5 challenging multiple choice questions that relate to your presentation
  - Create 4 answers (a-d) to each question and include answers

**STEP 2: CREATE A PHOTOSTORY**
Using software, you will create a fun and creative explanation of an assigned astronomy topic.

**Requirements for the Photo Story Assignment**
1. Title Slide: Name of your Photo Story & Your Name
2. LENGTH: 3-5 minutes, several pictures (10-15 at least)
3. Brief text on all slides - it can be a caption of what the picture is, who is in the picture, where it was taken, etc.
4. Recording your voice to explain each picture in detail
5. Music and/or sounds - on the entire Photo story if you would like (choose appropriate music)
6. REFERENCE LIST
   a. Last slide must be a credit slide for any graphics taken from any source such as the Internet.
   b. Internet address, citation for magazine or book must be included
7. Submit Electronically (NOT EMAIL) via your online storage - email your teacher so that I can download it!

**STEP 3: PRESENTATION**
- You are required to ensure that your teacher has your presentation and worksheet **BY THE DUE DATE**
- Marks will be lost if photo story, worksheet, or multiple choice questions are missing

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**THEMES/TOPICS FOR ASTRONOMY PROJECT**

- Why should we explore space?
- Space travel - interesting facts, cost and ethics
- Satellites
- Famous Astronauts - What do they do? What did they discover? Why are they famous?
- Celestial Objects in Space (meteors, meteorites, meteoroids - real life examples)
- The Sun - our life for everything...
- Evolution of a Star - birth to death + key words
- Galaxies - what are they? What are examples?
- Canadian contributions to space exploration
- Doppler Effect
- Careers in Astronomy
- Redshift/Blue shift of the Universe.
- Big Bang Theory
- Journey to Mars
- Space Technology
- Unsolved Mysteries of the Universe
- Black holes
- International Space Station
- Comets
- Moons and Tides (phases of the moon)
- Inner/Outer Planets
- Edwin Hubble and the Hubble Telescope
- History of orbiters and landers
- SpaceX - the future
- Living in outer space