Topic: Scale & Big Bang Working Document For Direct Instruction

Interact with the vocabulary: <mark>DO NOT USE GOOGLE!</mark> You can highlight the vocab throughout your notes & add in any word you don't have, make a glossary list, make flash cards…

Vocabulary Words:
1) AU
2) Light Year
3) Parsec
4) The Big Bang
5) Singularity
6) Time Zero
7) Doppler Effect
8) Red Shift
9) Cosmic Background Radiation
10) Photon
11) Three fates of our universe

Direct Instruction & Materials To Do List:
- Take **notes** from Mrs. Achey's Slideshow
- Optional Reading: Scale of Universe & Big Bang
- Do **Vocab** from above
- Do Worksheet The Scale & Big Bang check the answers
- In-class Activity on Expanding Universe
- **Show** me your notes, vocab, & worksheet
- **Quiz**

The Big Bang: 10 points
This project will focus on the creation of the universe. You can choose between:

        1) a magazine cover with catchy article titles (made on Google drawing) and a one-page minimum magazine article with pictures and two columns to look like a magazine (made on a google doc);

        2) a podcast where you explain all the information and provide a transcript (with a partner or alone); **and**

        3) a beautiful work of art with all the science information on the side in a description like you would see in a museum (I can help you take a pic on your phone).

SCIENCE

My expectation	Above & beyond
- The Big Bang project must display your knowledge of: - The **steps** of The Big Bang - With brief explanation of **2 pieces of evidence** that The Big Bang happened IN YOUR OWN WORDS!!!!!! - The **timeframe** Big Bang happened - Includes **one** fate of our universe	Uses our Free Response podcast to explain in detail one fate of our universe.

FINISHING TOUCHES: CLEAR COMMUNICATION

My expectation	Above & beyond
Intro to project: There is a blerp at the top of your project page, introducing it.	Context is lengthy & creative
Learning: project has proper format and is stylistically appropriate	Student choses above age appropriate projects
Technical: Proper spelling & grammar	Spelling and grammar are fluid in such that the project is stylistically enhanced
Mechanics: project is accompanied by visually pleasing extras such as pictures, digital backgrounds, image overlays	Project includes themed transitions
References: Use of credible resources that are listed in APA format either at the end of each project or on a collective reference page. See format below.	References include things other than web-based resources

Contributor's last name, first name. (Last edited date). *Title of resource*. Retrieved from http://Web address for OWL resource