**Space Scrap Book/Portfolio Project: Due Friday March 16th**

**Explores scientific events and issues in society**

* Decision in support of space exploration or against
  + Assessed: Scale of 1-4

Must Include:

* 3 for
* 3 against
* Your opinion and why
* Dangers of space-Warning Poster
  + Assessed: Scale of 1-4

Must Include:

* 1 risk/danger
* Why people should care
* How to protect from or reduce risk

**Develops skills for inquiry and communication**

* Articles about technology
  + Assessed: Scale of 1-4

Must Include:

* Summary of two articles.
* A link or print off of the articles
* One article on an aspect related to space travel
* One article on an aspect related to life support in space
* Postcard from a planet
  + Assessed: Marked out of 15

Must Include:

* At least 5 characteristics that differ from Earth /10 2 marks for each
* Format /5
  + Is it clear? Does it have a picture? Does it follow the postcard format?
* Earth related applications from space technologies Advertisement
  + Assessed: Scale of 1-4

Must Include:

* One invention intended for space that we use on Earth
  + Example: Powdered drinks that are used for hot chocolate were intended for Space travel

**Understands and makes connections between concepts**

* Timeline
  + Assessed: Marked out of 30

Must Include:

* 10 items related to Space travel, discovery or technology (10 marks)
* Brief explanation of each item (10 marks)
* Why you choose each as one of your ten items (10 marks)
* One story about space from a different culture other than European
  + Assessed: Scale of 1-4

Must Include:

* ½ page story summary
* ½ page picture
* Glossary:
  + Assessed: Marked out of 15

Must Include:

* 15 words and their definitions in their own words

**Analyzes and solves problems through scientific reasoning**

* Space Map:
  + Assessed: Total out of 21

Must Include:

* Drawn/physical model of motion of objects in space (10 marks. 1 for clear diagram, 9 for solar system planets)
* Predictions about motion of objects (9 marks. One for each motion of planets)
* Angular coordinates- Explain how they work with examples (2 marks. 2 examples of triangulation.)
* Rocket Design Blueprint
  + Assessed: Scale 1-4

Must Include:

* A hand drawn or google drawings version of a rocket.
* At least one aspect that is related to a scientific principle that would allow the rocket to travel to space
* Telescope: How to Manual
  + Assessed: Scale 1-4

Must Include:

* Explain in general terms the operation of optical telescope. Ie. How it works and how to use it.
* A step by step guide would be most appropriate