

Asteroids 2013

Could asteroids be a source of raw materials in the future, both here on Earth and for further space exploration?

Using a mission lifecycle, work together as a Science Working Group (SWG) to develop and prepare a preliminary definition of a mission to investigate the feasibility of mining an asteroid.

Using a SWOT analysis review your choice for STEC™ (science, technology, engineering and commercial) merit as related to the goal of the mission. You will present your initial SWOT analysis to a Neutral Assessment Team™ (NAT) on Tuesday, November 26th.

Your Final Phase B Preliminary Mission proposal will be presented at the Planetarium on Tuesday, December 17th.

Collaborate with the outside classrooms to create a presentation that incorporates *Blender* or other 3-D animation software to educate the public about the potential of asteroids in terms of exploration for resources.

Catch that Rabbit ~ short story by Isaac Asimov
The Little Prince ~ by Antoine de Saint-Exupery
The Moon is a Harsh Mistress ~ by Robert Heinlein

| Language Arts | Science | Social Studies | Technology |
|---|---|---|--|
| BOE: Functional Feasibility study Persuasive speaking Research, Prioritizing sources Listening skills Literature | How do scientists know what they know about the Solar System? Properties of elements Spectrometry Origin and formation of the solar system Laws of motion | Who owns outer space? Solar system geography Impact of raw materials mined in space on the global economy | How is animation used to better presentation? What animation programs are available online? Multi-perspective thinking |