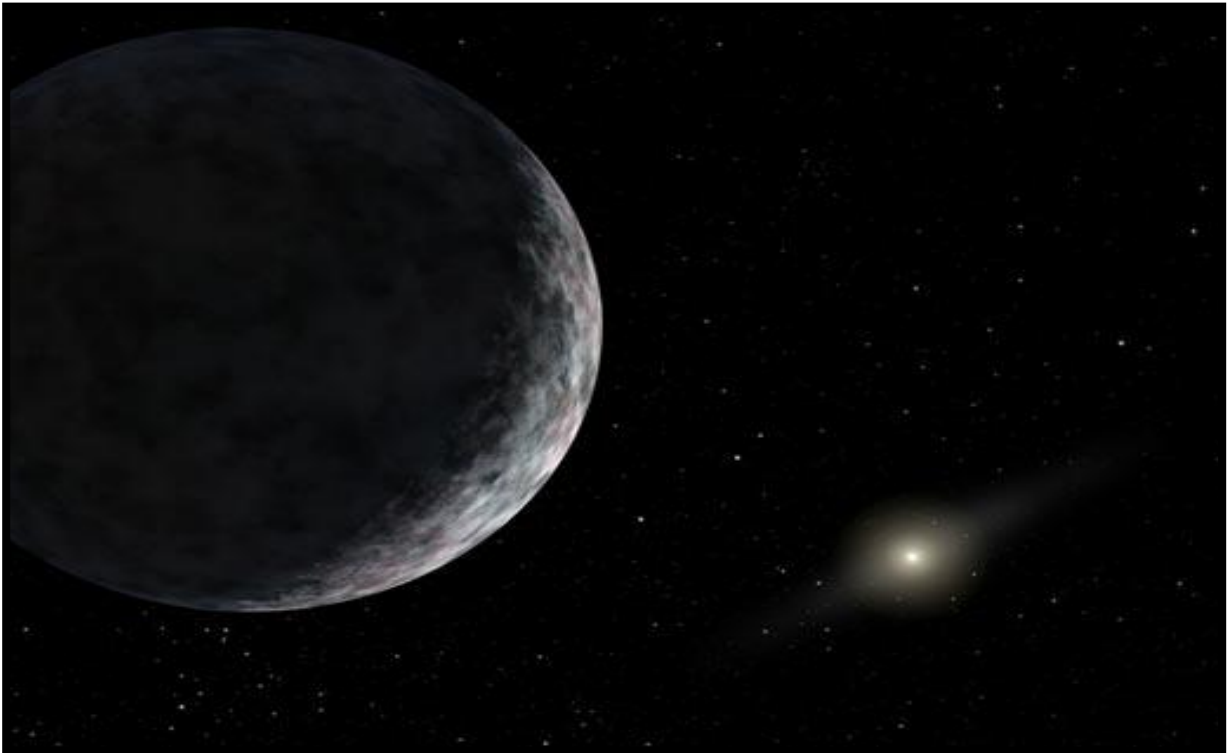




Brain Twister

Driftwood Education Center



Class Description:

Just a few years ago, NASA discovered a new planet just like Earth and they want students to create a Lander that will survive the drop down to the planets surface. Using limited government funds, students will buy their supplies, then build and test their Lander!!

Driftwood Education Center
Po Box 20712 St. Simons Island, GA 31522
Phone: 912.638.3849 Fax: 912.634.0642
www.driftwoodee.org

Table of contents and outline:

I. Introduction, overview, and assessment

1. Explain mission objectives
 - To land safely on the planet's surface
 - Keep spending to a minimum, low cost is best
 - Work as a group to brainstorm, design and build the lander
2. Hand out material bags containing various things
3. Explain budget guidelines and shopping

II. Main Objectives

1. Create and build lander
2. Stay within budget guidelines
3. Have fun

III. Conclusions and Wrap-up

1. Whose lander survived the impact?
2. Which teams lander survived the impact and cost the least to build

IV. Additional Information and help

1. *New Earth-like Planet 'Habitable'*
Irene Klotz, Discovery News

Concepts:

Focal points of this class are:

1. Creating, designing and building a lander-type vehicle.
2. Keeping within a budget.
3. Working together as a team

Outcomes:

Upon completion of this class, students will be able to:

1. Learn basic fundamentals of budgeting and staying within a given budget
2. Learn to implement, design and build a lander-type vehicle.
3. Have fun!

Georgia Performance Standards met or exceeded

1.S5CS8

Students will understand important features of the process of scientific inquiry.

2. M5P1

Students will solve problems (using appropriate technology).

3. M5P4

Students will make connections among mathematical ideas and to other disciplines

4. M7P1

Students will solve problems (using appropriate technology).

5. M7P4

Students will make connections among mathematical ideas and to other disciplines.

