Week 30 – Physical Science 11-15Mar13

Solar System Model – 50 classroom points Mr. Stewart

Students will choose one of the standards listed below and write a 1 page discussion on the subject.

HS-ESS1-e – Use mathematical and computational representations of natural and man-made solar system objects in order to describe their motions and predict their trajectories and/or collisions.

HS-ESS1-f – Construct explanations from data for the formation of the solar system based on space exploration and astronomical evidence of the composition, structure, and motions of solar system bodies.

E.12.B.3 – Students know ways in which technology has increased understanding of the universe.

Solar System Travel Brochure Guidelines – students will follow provided instructions and create a travel brochure for one of 16 solar system objects selected by Mr. Stewart for them. Students will be provided details of each solar system object to work with. Students will work in teams of 3 – but each student must create their own brochure that differs in measurable ways from each other.

Solar System Learning Stations – students will work as a team to follow provided instructions and crate a learning station for the same solar system object selected for them for the travel brochure. Students will include a 3D model of the object, as well as all of the brochures, on the learning station. Each team of 3 students will submit one learning station of their object. Classroom points will be awarded to the team based on the quality of learning system produced (up to 10 points).

Students will take a tour of the solar system, using the object learning stations they have created, to visit all 16 objects and answer questions on temperature, size, composition, atmosphere and interesting facts. Students will answer thought questions after taking the tour of the solar system.

The travel brochure (10 points), the solar system tour travel notes (10 points), the thought questions (6 points), and the 1 page discussion of a selected standard (14 points) will be added to Portfolio 9. This activity will be worth a total of 50 classroom points. Portfolio 9 will be collected and graded at a later date.