Lunar Habitat and What's The Difference (WTD)
Student Worksheets for Case Study III

Instructional Curriculum

Mathematics: Grades 6-9

Dmitriy Voloshin

Moon Math Case Study III 3
Case Study III: Level A Student Worksheet - Assignment.....3
Case Study III: Level B Student Worksheet- Assignment.....4
Case Study III: Level C Student Worksheet - Assignment.....5
Case Study III: Findings Sheet.....6

Moon Math Case Study III

Case Study III: Level A Student Worksheet - Assignment

On a sheet of graph paper create a scale model of a single-cylinder shaped lunar habitat. Consider the following: h = 30 m, r = 4 m. Use the following scale: 1 m = 1 cm.

Case Study III: Level B Student Worksheet- Assignment

: On a sheet of graph paper create a scale model of a triple-cylinder shaped lunar habitat. Consider the following: h = 4.2 m, r = 10.8 m. Use the following scale: 1 m = 2 cm.

Case Study III: Level C Student Worksheet - Assignment

On a sheet of graph paper create a scale model of a single-cylinder shaped lunar habitat. Consider the following: h = 32.3 m, r = 4.1 m.

Also, create a scale model of a triple-cylinder shaped lunar habitat. Consider the following: h = 3 7/9 m, r = 11 3/7 m.

Use the following scale for both models: 1 m = 1.2 cm.

Case Study III: Findings Sheet

Name(s): _____
Level: _____
Period: _____
Date: _____

Directions: Fill out this sheet completely and turn it in with all work to your teacher.

Question	Answer	Reasoning
Question 1: What did you learn by creating a floor plan of your house or apartment?		
Question 2: What did you learn by creating a scale model of the lunar habitat?		