



PA – 3 Region
Mathematics and Science Partnership

Lesson One – Unit One
2010 - 2011

NAME: Susan Higley

GRADE LEVEL: 8th

SUBJECT AREA: Mathematics

SCHOOL: Hughesville Junior Senior High School

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Lesson Plan #1 – Unit #1

Topic or Title: Introducing James Webb Space Telescope
James Webb Space Telescope
PA Academic Standards (List number and short description):
2.5. Mathematical Problem Solving and Communication Invent, select, use and justify the appropriate methods, materials and strategies to solve problems. A. Verify and interpret results using precise mathematical language, notation and representations, including numerical tables and equations, simple algebraic equations and formulas, charts, graphs and diagrams. B. Justify strategies and defend approaches used and conclusions reached. C. Determine pertinent information in problem situations and whether any further information is needed for solution.
Objectives:
The student will be introduced to the James Webb Space Telescope. The student will learn the key components on the James Webb Space Telescope.
Materials:
Laptops You Tube Video “Scope It Out “ Game Student Worksheet
Anticipatory Set:
You Tube Video on James Webb Space Telescope YouTube - James Webb Spa#203411

Activities: (modeling, guided practice, independent practice & group work)
“Scope It Out Game”, independent work completing the worksheet and progressing through Levels 1 through Level 4. Pair/Share Activity to compare worksheet responses Whole Group Discussion of the worksheet responses.
Wrap-up:
Summarize the discussion. 3-2-1 on the James Webb Space Telescope
Evaluation / Assessment:
Student Completion of the Levels 1 through Level 4 on the “Scope It Out Game”. Individual student worksheet. 3-2-1 on the James Webb Space Telescope