





# PA – 3 Region Mathematics and Science Partnership

## Lesson One – Unit One 2010 - 2011

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**GRADE LEVEL:8th** 

SUBJECT AREA: Mathematics

SCHOOL: <u>Hughesville Junior Senior High School</u>

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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