

ONLINE LESSON PLAN
Inclusive Best Practices Project: Co-Teaching

Respondents: **Lynn Mona, Mathematics Teacher**
Susan Clegg, Special Education Learning Support Teacher

Park Forest Middle School
State College Area School District

Date of lesson to be observed/taped: **October 2, 2009**

1. Lesson Title:

Representing Linear Relationships

2. Teacher(s) Name(s):

Teacher 1: Lynn Mona, Mathematics Teacher

Teacher 2: Susan Clegg, Learning Support Teacher

3. Grade Level(s): 8

4. Content Area: General Mathematics/Pre-Algebra

5. Description/Abstract of Lesson:

Making tables, graphs and equation of linear relationships

6. Primary Lesson Objectives:

(1): Students will make a linear graph and equation from a table of data.

(2): Students will make a table and equation from a graph.

(3): Students will make a graph and equation from a table or graph.

(4): Students will recognize starting value on graph and rate of change throughout table.

7. Cognitive Level:

Knowledge

Comprehension

Application

Analysis

Synthesis

8. Standards and Anchors Addressed:

M8d1, M8d2: Algebraic concepts

9. Guiding questions for this lesson:

- (1): How do we represent a linear relationship through a graph, table and equation?
- (2): Where do we find the starting value in a graph, table and equation?
- (3): How is the starting value represented in the world?

10. Assessment Tools:

- Student responses to guided practice problems
- Teacher questioning
- Teacher observation
- Quiz/Test

11. Learning Connections:

Students have learned how to plot points, graph data and write basic equations. They will be using colored pencils, pre-made graphic organizers and note sheets.

12. Instructional strategies used in this lesson:

- Cueing
- Brainstorming
- Cooperative Learning
- Demonstration
- Guided Practice
- Instructional Technology
- Lecture
- Memorization
- Note-taking
- Graphic Organizer
- Presentation/Exhibition
- Teacher Questions

13. Learning Activities or Tasks:

- 1. Morning Math (spiral review/opener): Review basic concepts involving linear relationships and integers.
- 2. Review homework problem from night before.
- 3. Math teacher reviews prior knowledge. Special Educator gives visual note card. Math teacher models graphing linear relationship and writing tables and equations.
- 4. Students will work on graphing linear relationships and writing tables and equations based on "real-world" situations. Students will be paired to work cooperatively.
- 5. Students will attempt to design their own linear relationships.
- 6. Summary/exit
- 7. Assign homework for next day.

14. Classroom Organization and Learning Environment:

- Homogeneous grouping
- Teacher support
- Spiral Review
- Individualized criteria for grading for IEP students
- Cooperative pairs

15. How and where will your students work?

- Independently in desks
- Cooperative pairs
- Groups
- Rows

16. Materials and Resources:

- Laptop computer with projector
- Power Point presentation
- Whiteboard
- Red/black whiteboard markers
- Spiral notebook
- Student packet
- Colored pencils
- Note cards

17. Lesson Evaluation/Teacher Reflection: To be completed following the lesson