Subject: Algebra 1 Unit: Ch 8 exponents

Part I: Clarity of Learning Targets

What are the grade level indicators that go with this unit? Place a star next to the grade level indicators that are Power Indicators. Are the indicators in student friendly language? Place the level of Bloom's Taxonomy next to each Power Indicator.

Apply properties of exponents involving products. (EQ#1)

Apply properties of exponents involving quotients. (EQ#1)

Apply zero and negative exponents. (EQ#1)

Multiply and divide numbers in scientific notation (EQ#1)

Write and graph exponential growth functions.

Write and graph exponential decay functions.

Model real world situations using exponential growth and decay.

What are the Big Ideas that go with this unit?

- 1.) Properties of exponents are used to simplify and evaluate expressions.
- 2) Growth and decay functions help model real life situations such as loans, populations, etc.

What are the Essential Questions that go with this unit?

- 1.) How do you simplify and evaluate rational expressions?
- 2.) How can exponential functions help evaluate or predict real life situations?

What strategies will we use in order to make learning targets clearer for all students, before, during and after instruction? How will you communicate the learning indicators to students?

Learning targets on smartboard Checklist Daily discussion

Part II: Feedback and Assessments (Formative and Summative)

How will we provide students with feedback throughout the unit?

What formative assessments will we use? (Non-graded assignments that check for understanding and provide feedback to the students) Incorporate the 7 Strategies of Assessment for Learning here.

I can checklist of learning targets

Write and discuss daily learning target

Examples of strong and weak work (the loan project)

Learning chains to monitor targets – (pg 210)

Analyze my results –(pg 213)

Homework tallies

Entrance/Exit slips

White boards

Allowance problem – discussion between exponential and linear; how to solve, etc.

How will students be involved with keeping track of their own learning progress (note—this is different than tracking points for a grade)?

Checklist of learning targets Learning chains Analyze my results

What summative assessments will we use? (Graded, evaluative assessments)

Chapter test

8.1-8.2 Quiz

8.3-8.4 Quiz

Loan project

Olmsted Falls Schools: Unit Design Framework

Part III: Instruction and Student Activities

align with the indicators and assessments.
Class notes Examples of problems
Worksheets