

Using the Laws of Exponents to Interpret Scientific Notation – A Co-Teaching Lesson Plan

Co-Teaching Approaches

A "(Y)" in front of the following list items indicates the approach is outlined in the lesson. An "(N)" in front of the following list items indicates the approach is not outlined in the lesson.

- (Y) Parallel Teaching
- (Y) Station Teaching
- (Y) Alternative Teaching
- (Y) Team Teaching
- (Y) One Teach/One Observe
- (Y) One Teach/One Assist

Subject

Scientific notation

Strand

Expressions and Operations

Topic

Working with scientific notation

SOL

A.2 The student will perform operations on polynomials, including
a) applying the laws of exponents to perform operations on expressions.
(Related: A.1)

Outcomes

Students will apply the laws of exponents to interpret scientific notation.

Materials

- Frame Diagram (attached)
- Frame Diagram (sample, attached)
- Scientifically Speaking activity sheet (attached)

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Vocabulary

base, exponent, power, scientific notation

Co-Teacher Actions

Lesson Component	Co-Teaching Approach(es)	General Educator (GE)	Special Educator (SE)
Anticipatory Set	Team Teaching	GE uses the Frame Diagram to review prior knowledge (exponent rules). This review may be set up as a cut and paste activity where the students are provided with a blank frame and each individual component. Once students have had time to cut and paste, teachers will facilitate a discussion about the exponent rules and the frame.	SE same as GE.
Lesson Activities/ Procedures	One teach/One assist	GE monitors student progress. Question The mass of the sun is 1.99×10^{30} kg. Why do you think this is written in scientific notation? GE monitors students and asks leading questions during the discussion.	Students will evaluate a number written in scientific notation. (5.43×10^7) SE changes the exponent to a negative number and students evaluate the new number. (5.43×10^{-7}) SE asks students to explain what changes. SE monitors student progress and asks

Laws Of Exponents Exploration Lesson Plan

RS Peters



Laws Of Exponents Exploration Lesson Plan:

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Perspectives on the Teaching of Mathematics Rheta Norma Pollock Rubenstein,George W. Bright,2004 Teaching is a complex ongoing endeavor that involves a myriad of decisions NCTM s sixty sixth yearbook is organised around three aspects of teaching foundations for teaching the enactment of teaching and the support of teaching nurtured in preservice education and strengthened throughout a teacher s career The accompanying professional development guidebook edited by George W Bright contains activities that illustrate and extend some of the ideas in the yearbook in order to further teachers growth and development in understanding and implementing effective mathematics instruction *Student Teaching Bulletin...* University of Minnesota. College of Education,1923

Seeing Through Mathematics; Teaching Guide ,1965 [Resources in Vocational Education](#) ,1979 [Integrated Mathematics](#) Holt McDougal,1998 [The Mathematics Teacher](#) ,2006 [Resources in Education](#) ,1979 **Library of Congress Catalog: Motion Pictures and Filmstrips** Library of Congress,1963 A cumulative list of works represented by Library of Congress printed cards **Documents of the Senate of the State of New York** New York (State). Legislature.

Senate,1896 **Nuttall's Standard Dictionary of the English Language** P. Austin Nuttall,1887 **Report of the Regents** University of the State of New York,1897 *Nuttal's Standard Dictionary of the English Language* ,1899
Encyclopedia of Mathematics Education Louise Grinstein,Sally I. Lipsey,2001-03-15 This single volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary secondary and post secondary levels It contains more than 400 entries arranged alphabetically by headings of greatest pertinence to mathematics education The scope is comprehensive encompassing all major areas of mathematics education including assessment content and instructional procedures curriculum enrichment international comparisons and psychology of learning and instruction **Annual Report of the Regents of the University of the State of New York** University of the State of New York. Board of Regents,1897 Films and Other Materials for Projection Library of Congress,1963 *The Prealgebra Workbook V. 2. 5 Why Interactive Staff*,2001-08

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