

Foundations 10 LESSON PLAN

DATE: October 9, 2013

PERIOD: 5

TOPIC: 2.2-Simplifying Radicals Card Game

Objectives:

- Express entire radicals as mixed radicals
- Understanding of the multiplication property of radicals

Outcomes & Indicators:

- Demonstrate understanding of irrational numbers in both radical (including mixed radical) and exponent forms through:
 - representing
 - identifying
 - simplifying
 - ordering
 - relating to rational numbers
 - applying exponent laws.
- [C, CN, ME, PS, R, V]**
- E. Express a radical as a mixed radical in simplest form (limited to numerical radicands).
- F. Express a mixed radical as an entire radical (limited to numerical radicands)

Knowledge/Skills:*Students will understand.../Students will be able to...*

- Students will understand the multiplication property of radicals
- Students will be able to write entire radicals as mixed radicals
- Students will be able to write mixed radicals as entire radicals

Materials & Resources

- 9 decks of cards
- Rules of game written on board
- “what students can have on their desks” up on board
- Exit slip ready for end of class

<p>Learning Plan: <u>Set (15 minutes)</u></p> <ul style="list-style-type: none"> • Explain the game <ul style="list-style-type: none"> -Two leagues: Competitive and Cooperative -Groups of 3 (they can choose) in their “league” -Discuss rules of game to students by having rule son board, but also by showing them and playing a practice round. • Make sure students realize the objective and point of Game: to PRACTICE, not to win. <p><u>Development</u></p> <ul style="list-style-type: none"> • Have students play the game for the class-have everyone in each group of 3 play each other with one person being the moderator and stepping in if there are any concerns <p><u>Closure</u></p> <ul style="list-style-type: none"> • Exit Slip to gauge understanding and effectiveness of game. <ol style="list-style-type: none"> 1. This game did/didn’t help me with simplifying radicals because... 2. My main challenge in this game was... 3. My main success in the game was... 	<p>*If students are having difficulty, they will work cooperatively together to simplify the cards flipped over.</p> <p>*Note: After working on simplifying the square root, students can work on the cube root</p> <p>*REFLECTION: This game did not take all class (Next time, I would work on it for only 30 mins)</p>
<p>Assessment: <i>Formative/Summative</i></p> <ul style="list-style-type: none"> • Formative assessment of Exit Slips 	