

## Final Exam Study Sheet

- Review Brahier Chapter 3 on Learning Theories, and the associated PowerPoint:
  - Educational research – qualitative vs. quantitative
  - Learning theories: Bruner, Van Hiele, etc.
  - Constructivist model of learning
  - Traditional vs. constructivist classrooms
  - Inductive vs. deductive teaching
  - Concept attainment method
  - Student motivation/components
- Relational vs. instrumental understanding (Skemp reading)
- Review Brahier Chapters 9 and 10 on Assessment, and the associated PowerPoint:
  - What is assessment and why is it important?
  - Assessment vs. evaluation; summative vs. formative
  - Criterion-referenced vs. norm-referenced tests
  - Test construction issues
  - Validity vs. reliability
  - Test scoring issues
  - Scoring rubrics
  - Alternative assessment strategies
  - Homework management strategies
- Review Brahier chapter 7 on Teaching Tools and Strategies:
  - Selecting activities
  - Using manipulatives and technology tools
  - Questioning strategies
  - Cooperative learning strategies
  - Creating a positive learning environment
- Review Brahier chapter 12 on the Teaching Profession, and the associated PowerPoint:
  - Working with parents
  - Supervision and evaluation of teachers
  - Professional development
- Be able to communicate logical and correct mathematical reasoning about school math problems
- Be able to communicate sound teaching decisions related to classroom scenarios