2011 Science, Phys Ed and Health Ed Summer Review Institute

# Teachers' Textbook Appraisal

Local school boards may also want to consider other criteria to meet the needs of their student population.
All teachers that reviewed this material are highly qualified in their specific field in education.

Textbook Title: Chemistry Concept and Application
Publisher: Glencoe Science (McGraw Hill)
Grade Level: 9-12
ISBN No. Teacher Edition: 9780078807244s
ISBN No. Student Edition:

## TEXTBOOK ORGANIZATION

- Several activities, assessments and labs fill the pages, such as: labs, mini-labs
- Start-up activites for each chapter
- Practice problems throughout the text
- Use of leveled questions help with differentiation
- Atomic structure and periodic table/periodicity are each split and separated by several chapters
- Language use is consistent and helps in teaching, differentiation, and developing metacognition.

## STUDENT ASSESSMENT SUPPORT

- Chemistry skills handbook in the appendix.
- Standardized test practice for each chapter that identifies sections to review if student missed the questions.
- Varied assessments for each topic at multiple levels.
- Opportunities for cooperative learning
- Minimal naming, balancing and stoichometry

## ADDITIONAL CRITERIA

- Reference tables, chem. Labs and mini labs are included in the text
- Writing activities and journaling
- Great sections on how technology works (ie. Smoke detector), a very real world approach
- Integrate the sciences in each chapter

## TEACHER COMMENTS

- There are plenty of opportunities for higher level thinking in the lab analysis. In an effort to include everything the chapters can be confusing, for example the chapter assessments continue numbering from the section assessments. (JW)
- Conceptual textbook. Labs require minimal chemicals in their preparation, quick demos are in abundance, and there is minimal mathmatics and calculations (RP)
- This would be a very useful book. You can teach to a low level and a high-level. The labs and activities are varied and accessible. The supplemental materials are integrated into the lesson assessments and activities in the TE. (TAP)s