

MATHEMATICS TEXTBOOK EVALUATION CHECKLIST

Name of textbook: _____

Publisher: _____

0 = this element is not evident in the textbook being evaluated

1 = some evidence of this element is in the textbook being evaluated

2 = this element is a component of the textbook being evaluated

3 = this element is very evident in the textbook being evaluated

CREATES A DEEPER UNDERSTANDING OF CONTENT

_____ builds conceptual understanding through a logical sequence of related mathematical ideas

_____ enables students to investigate important concepts in depth

_____ develops concepts using multiple representations (concrete, numerical, graphical, geometrical, and symbolic)

_____ encourages students to use mathematical language, vocabulary, and notation to represent ideas, describe relationships, and model situations

_____ provides students with opportunities to explore open-ended problems that have multiple solutions

_____ makes meaningful connections within mathematics, to other content areas, and to real-life situations

_____ aligns with state and national standards and benchmarks

SUPPORTS EQUITY THROUGH A STUDENT-CENTERED APPROACH TO LEARNING

_____ provides all students with equal opportunities to engage in worthwhile mathematical tasks

_____ free from cultural, ethnic, and gender bias

_____ reflects a balance between ethnic background, gender, age, handicaps, and careers in illustrations and text

_____ promotes critical thinking, problem-solving, and reasoning

_____ facilitates inquiry-based explorations through a variety of approaches

_____ encourages students to conjecture, observe, experiment, explain, predict, refine, validate, and defend their ideas in a variety of ways

_____ supports varied methods of instruction, learning styles, and cultures

_____ includes materials and resources that support students whose primary language is not English

_____ allows for whole group instruction, small group collaboration, and individualized instruction

UTILIZES AUTHENTIC ASSESSMENT

_____ embeds continuous assessment in student learning

_____ uses multiple forms of assessment (e.g. projects, portfolios, reflections, journals, free-response tests)

- _____ includes a variety of !!!questioning techniques (e.g. fact and recall, open-ended, probing and clarifying, application/transfer) beyond recitation
- _____ encourages students to model, represent, and reflect on mathematical ideas and situations in written, oral, and pictorial forms

INCORPORATES TECHNOLOGY (CALCULATORS, COMPUTERS, ETC.) INTO STUDENT LEARNING

- _____ uses technology frequently to allow students to discover and investigate mathematical ideas
- _____ uses manipulatives routinely
- _____ reflects the use of technology in real-life applications and careers
- _____ includes activities which help students know when to use estimation, mental math, pencil and paper, calculators and/or computers

PROVIDES SUFFICIENT SUPPORT FOR TEACHERS

- _____ provides content background information for teachers
- _____ includes suggestions for effective pacing of instruction, including short - and long-term planning
- _____ provides both intervention and enrichment activities
- _____ integrates ways to communicate/correspond with parents regarding the goals and objectives of the textbook
- _____ organizes units in an easy-to-follow format that is appealing and functional
- _____ suggests additional resources to extend student learning

SUMMARY RECOMMENDATIONS:

(including strengths and weaknesses of this textbook or series)