Using Technology to Support Delayed and Accelerated Learners

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Agenda
- Technology in the Classroom
- Benefits to Instruction
- Dyscalculia Overview
- Strategies Overview
- Effective Classroom Examples
- Selecting Technology

Here Come the Robots

STEM
- School-work connections
- Interdisciplinary approach to learning
- Better prepared graduates
Teacher Reluctance

- Lack of teacher training
- Little input on purchase
- Poor infrastructure/compatibility
- Planning and development issues
- Focus on test scores
- Play vs Learning
- Role shift
- Grouping
- Perceived loss of literacy
- Perceived loss of social skills

How to Get On-board

- Focus on STEM
- Partner with business
- Use instructional strategies
- Integrate with curriculum
- Improve infrastructure
- Ensure safeguards are in place

How Technology Can Support Math Instruction

- Better address various learning types
- Allow for differentiated instruction
- Scaffold learning
- Assist with grouping
- Engage learners
- Instant feedback
- Generalizes learning
- Allows for self exploration

Limitations

- Use similar verbiage/formatting
- Ensure curriculum integration
- Set clear goals
Choosing Interventions
- Research-based
- Evidence-based

Intervention Types
- Academic
- Cognitive
- Other

Flexible Grouping
- Homogeneous grouping
- Heterogeneous grouping

Evaluating Technology
- Developmentally appropriate
- Active vs Passive
- Research-based or Evidence-based
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Technology Examples

Software
• Dybuster Calcularis
• MATHia (Cognitive Tutor Algebra 1)
• Academy of Math
• SuccessMaker

Collaboration Apps

Videos/Podcasts

Devices
• Whiteboards
• Graphing calculators
• Tablets

Finding Technology

What Works Clearing House
https://ies.ed.gov/ncee/wwc/FWW

case (Council of Administrators of Special Education)
http://www.casecec.org/resources/endorsed.asp

Math Learning Series Site


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