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Differentiating Instruction with Technology

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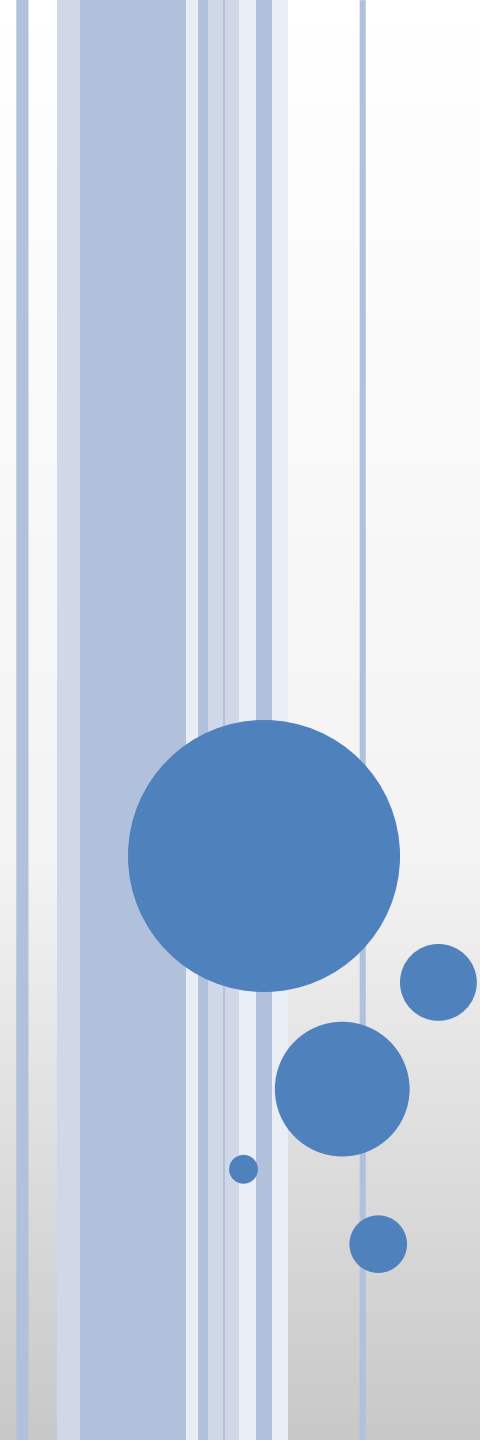
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Recommended Citation

Oxford, Amanda C., "Differentiating Instruction with Technology" (2015). *Georgia Association for Positive Behavior Support Conference*. 67.

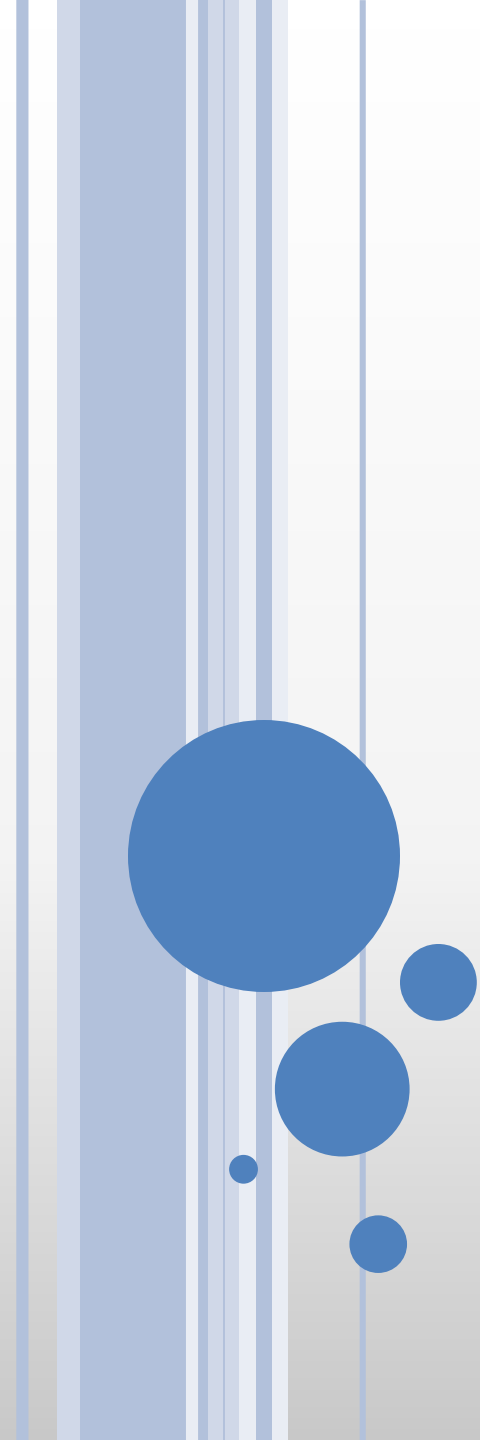
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DIFFERENTIATED INSTRUCTION WITH TECHNOLOGY

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“When a teacher tries to teach something to the entire class at the same time, chances are,

one-third of the kids already know it; one-third will get it; and the remaining third won’t.

So two-thirds of the children are wasting their time.”

~Lilian Katz (teacher educator)

WHAT IS DIFFERENTIATION???

○ Differentiation

- Modifies content, process, product and learning environment based on assessed needs

○ Scaffolding

- Breaking up a learning experience, concept or skill into discrete parts, then giving students the assistance needed to learn the part

○ Differentiation and Scaffolding BOTH

- Move student learning and understanding from where it is to where it should be
- Blended in a classroom to the point that the two are indistinguishable
- Essential to learning and engagement



individualized
instruction

just small
group work

Differentiation
is NOT...

making things
comfortable/easier for
students

changing up
your style



a teacher who collects and
uses assessment data

a teacher who recognizes
students need more than
one way to experience
learning

Differentiation
IS...

a teacher who is proactive
rather than reactive

balancing effort with
SUCCESS!

TRADITIONAL VS. DIFFERENTIATED

- Student differences ignored or acted upon when problematic
- Assessment only at the end of learning to see “who got it”
- One definition of excellence exists (100 percent achievement, on objectives tested once)
- Student interest infrequently tapped
- Whole-class instruction dominates

- Student differences studied as a basis for planning
- Assessment on-going and diagnostic to be responsive to learning needs
- Excellence defined in large measure by individual growth for a starting point
- Students frequently make interest-based learning choices
- Many instructional arrangements (groupings, partner work, centers)



TRADITIONAL VS. DIFFERENTIATED

- Coverage of texts and curriculum drives instruction
- Single option assignments
- A single text prevails
- Time is relatively inflexible
- Students assessed in one way

- Curriculum/standards still drives instruction
- Multi-option assignments
- Multiple materials provided (visuals, manipulatives)
- Time is flexible, based on student need
- Students assessed in multiple ways



DIFFERENTIATE CONTENT

- What the teacher plans to teach
- What the students need to learn
- Presenting material to students in more than one way everyday!
 - Auditory, Visual, Kinesthetic, Tactile, etc.
- Determined through pre-assessment and formative assessment
- Take the time to be thorough!



Content Methods

- Textbooks
- Speakers
- Fieldtrips (real or virtual)
- Videos
- Demonstrations
- Lectures
- Internet sources
- Paper resources (newspaper, magazines, books)
- Power point
- Podcasts
- Webquests

Differentiated

- Varying reading level of materials
- Putting text on CD/Tape/Ipod
- Grouping/peer buddies
- Multi-level questioning
- Real world materials/examples
- Multi-level computer programs
- Meeting with small group to re-teach skill or extend skill
- Modeling
- Vocabulary instruction based on readiness level
- Use more than one method of presentation
- Graphic organizers
- Fill in blank notes



TECHNOLOGY RESOURCES FOR CONTENT

- Multi-level Computer programs
 - www.IXL.com (math and LA k-12)
 - www.raz-kids.com (leveled e-books k-5)
 - www.mobymax.com (math, LA, Science k-8)
 - Getkahoot.com and Kahoot.it (learning games)
 - www.brightstorm.com (9-12 math, science, LA, test prep)
 - www.digitalhistory.uh.edu (6-12 Social Studies)
 - www.kahnacademy.org (k-12 multi subject)
 - Sketchpad Explorer App (1-10 math)



DIFFERENTIATE PROCESS


- Don't skip this step!
- How students will access information
- Activities the students engage in order to make sense of the content
- Tiered activities in which all learners work with the same information, understanding, and skills but proceed with different levels of support, challenge or complexity
- Can be teacher led, collaborating as a class, collaborating in pairs, homogenous or heterogeneous ability groups, or independent work



Process Methods

- Worksheets
- Graphic organizers
- Teacher led Discussion
- Teacher led practice
- Work at the board
- Vocabulary activities
- KWL
- Dipstick or Summarizing strategies
- Blooms Taxonomy

Differentiated

- Centers/stations
 - Manipulatives
 - Jigsaw
 - Think, Pair, Share
 - Labs
 - Role play/simulations
 - Web quests
 - Journaling
 - Cubing (can be process or product)
 - Tiered practice problems
 - Solve a mystery/problem scenario
 - Heterogeneous or homogenous grouping
 - Collaborate as a class, group, or pairs
- 

TECHNOLOGY RESOURCES FOR PROCESS

- www.edutechalogy.org go to blog
- exploredifferentiation.wikispaces.com
- Daretodifferentiate.wikispaces.com
- www.schrockguide.net
- www.learnnc.org
- www.doe.in.gov/highability/resources-and-publications go to Tiered Curriculum Project
- Padlet.com, Google drive, Bubbl.us, www.twiddla.com



SCAFFOLDING IS PART OF THE PROCESS

- Provides a safety net for students
- Happens before and during teaching
- Breaks learning into chunks, then provides structure or a tool with each chunk
 - Activating and previewing strategies
 - Investigate prior knowledge, making predictions, piquing interest, allow time to share personal experiences
 - Show and tell (show sample product, discuss rubric or criteria, what steps do they follow)
 - Think aloud – as you teach model thought processes
 - Quality Questioning - Pause, Ask, Pause, Review
 - Using chants, mnemonics, visual or verbal cues/reminders



SCAFFOLDING THROUGH TRANSITIONS

- PBIS can help
 - Posted behavioral expectations
 - Explicitly teaching and practicing transitions
 - Reinforce and reward!!
- Activating strategies
 - Hook interest and get brains engaged in what is coming next
 - Max Thompson strategies: KWL, word splash, word maps
 - Personal story, visual aide, brainstorming
 - Should be fun and require interaction
 - Can also include reviewing previously taught material in a fun way



SCAFFOLDING THROUGH TRANSITIONS

- Good closing steps:
 - Have a predetermined plan for those who finish early, then better differentiate for them the next time
 - Find a stopping point and come together
 - Review academic and behavior positives
 - Allow time to share
 - Release and start getting set up for the next lesson



DIFFERENTIATE PRODUCT

- How the student will demonstrate what he/she has learned
- Special Education students can do all the things other student do, given time, a sample, and support!



Common products

- Create a poster
- Create a Powerpoint
- Design an article
- Worksheets , tests, quizzes(yawn)
- Speech
- Essay/Book report
- Build a model
- Teach another student
- Debate
- Demonstration

Differentiate

- Product Menu/Choice board (Tic Tac Toe)
- Cubing, Think Dots
- Write song/video/act it out
- Blog or Wiki
- Podcast
- Rubrics with varied levels
- Exit card
- Contracts and timelines
- Interest based investigations
- Movie or book trailer
- Incorporating learning styles into choices



TECHNOLOGY RESOURCES FOR PRODUCT

- www.readwritethink.org k-12 student interactives
- Differentiationdaily.com
- Pinterest
- Youtube playlists
- Screencastify
- Zoom
- Thinglink
- Piktochart

bit.ly/di4allonlinetools



DIFFERENTIATION PRO'S AND CON'S


○ Pros

- It is just more fun!!!
- Research shows it works for gifted as well as students with more severe disabilities
- Allows students to take responsibility for their own learning
- Students are more engaged resulting in fewer discipline issues

○ Cons

- Requires more time put into planning and preparation
- Limited professional development





“There is no one right way to create an effectively differentiated classroom; teachers craft responsive learning places in ways that are a good match for their teaching styles, as well as for their learners needs.”

~Carol Tomlinson

PROACTIVE = ANTECEDENT MODIFICATION

- Differentiation can be part of the IEP.
 - Instructional accommodations
 - Content, Process, Product, and Environment
 - Antecedent modification
 - Environmental
 - Social Supports
 - Task Oriented
 - Teacher Behavior



ENVIRONMENTAL MODIFICATIONS

- Lighting- dim/bright, overhead/lamps, natural, filters
- Sounds- door open/shut, background music, white noise, headphones
- Alignment- chair height, slant boards
- Zoning- seating, specific areas with specific purpose (desks/board, floor space, table, computer area, project area), location of staff
- Provide tools- visual cues for rules/steps/boundaries, timers visual/auditory, fidgets, soothing space



SOCIAL MODIFICATIONS

- What proactive strategies can you use to help students be socially appropriate in class, with peers, and adults?
 - Circle time/morning meeting or check in
 - Explicit social skills instruction, Role play
 - Visual cues/reminders
 - Behavior specific praise
 - Behavioral momentum
 - Pair with a role model
 - Self-monitoring check list and self-evaluation
 - Set up volunteer/positive relationship opportunities
 - Practice specific skills and then test run



TASK MODIFICATIONS

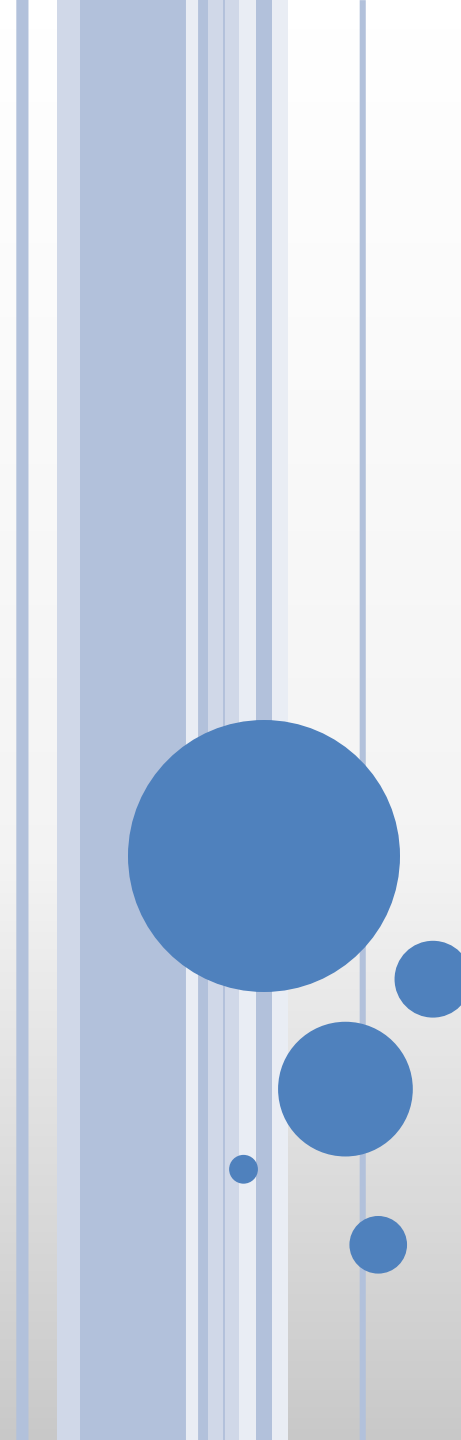
- High interest or preferred materials
- Incorporate choices
- Writing modifications
- Manipulatives, calculator
- Break task down into portions
- Shorten length or reduce complexity of task
- Schedule work/break times
- Extended time, multiple attempts
- Provide a completion schedule or map for difficult tasks
- Alternate task or lowered/advanced level
- Always be willing to negotiate!! What is most important?



TEACHER BEHAVIOR MODIFICATIONS

- Proximity
- Verbal cues for upcoming activities, reminders, and praise
- Incentive plans/individual behavior contracts
- Allow students time as soon as frustration is detected
- Be knowledgeable in coping strategies, offer and guide students in using them
- All adults in room engaged
- Reduce down time
- Incorporate sensory activities for all





“Teachers discover that they need to develop and maintain personal relationships with the students they teach -- because for most students, meaningful interaction with a teacher is a precursor to academic learning.”

~Huberman

QUESTIONS???

- Differentiation and Scaffolding
- Differentiation in the IEP
 - Proactive/Antecedent mods
 - Smooth Transitions
- Web Resources
 - [Web and App Resource List](#)
 - [Product Menu](#)
 - Pinterest

