

Using MSTAR Data to Differentiate Instruction!

Research in Mathematics Education!

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This slide features a dark blue background with a white arc at the top. The title and authors' names are centered in white text. A decorative horizontal line with a red semi-circle on the left and a vertical line in the center is positioned below the text. At the bottom, there is a small, colorful, abstract graphic.



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- Content selection focuses on readiness levels!
  - Enrich content to meet the needs of gifted and talented students !
  - Adjust content to meet students' needs in conjunction with the Rtl support system!
- Content selection can be driven by interest!
- Remember, one size does not fit all!!

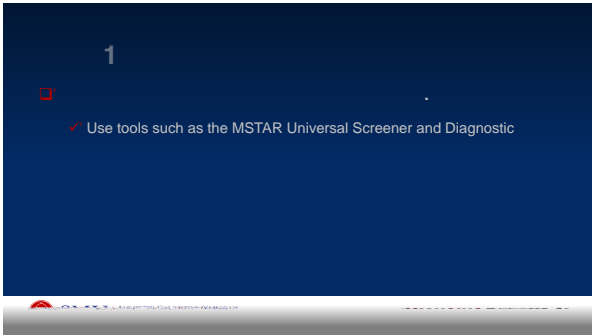
- Incorporate student preferences and learning styles!
  - Determine how a student comes to understand and assimilate facts, concepts, and skills and teach him/her in a way to grow understanding!
  - Provide small groups for explicit, direct instruction!
- Differentiation by process could look like!
  - Flipping your classroom!
  - Project Based Learning !
  - Cognitively Guided Instructional Theory!
  - Self-pace or self-direct learning of content!

- Creating a model or representation!
- Presenting a report or teaching a lesson!
- Identifying and extending a pattern!
- Classifying and ordering!
- Making inferences and drawing conclusions!
- Interpreting data!
- Creating and testing a hypothesis!
- Journaling a process!



VI Hart  
A song about a circle  
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- [Faint bullet point]





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- ❑ Choose a skill that is conceptual (a functional grasp of mathematics that a student applies to concepts, operations, and relations) in nature. !
- ✓ What is the essential question(s) and understanding?!



