MATH		
I. BASIC MATH SKILLS		
Α.	Basic Math Skills:	
	Basic Math Skills, also known as numeracy, is the ability to reason and apply simple numerical concepts	
	such as addition, subtraction, multiplication, and division. Numeracy also includes number sense,	
	operation sense, computation, measurement, geometry, probability and statistics.	
В.	Students may have Difficulty with the Following Skills:	
	For Young Children:	
	Difficulty learning to count	
	Trouble recognizing printed numbers	
	• Difficulty tying together the idea of a number (4) and how it exists in the World (4 horses, 4 cars,	
	4 children)	
	Poor memory for numbers	
	For School-Aged Children:	
	Trouble learning math facts (addition, subtraction, multiplication, division) Provided the facts (addition, subtraction, multiplication, division)	
	Poor long-term memory for math functions Profile 1.	
	Difficulty measuring things For Theorem and Adults	
	For Teenagers and Adults Difficulty actimating costs like greeners hills	
	 Difficulty estimating costs like grocery bills Difficulty learning math concepts beyond the basic math facts 	
C.	Poor ability to budget or balance a checkbook Informal Assessment Tools:	
С.	1. Rocket Math Addition Facts Assessment	
	2. Rocket Math Subtraction Facts Assessment	
	3. Rocket Math Multiplication Facts Assessment	
	4. Rocket Math Division Facts Assessment	
D	https://www.rocketmath.com/p/mathfactsfluencytests.html	
D.	Research-Based Intervention Ideas:	
	1. School-wide Strategies for Managing MATHEMATICS Intervention Central (www.interventioncentral.org)	
	a. Math Computation: Boost Fluency Through Explicit Time-Drills	
	b. Math Computation: Motivate With 'Errorless Learning' Worksheets	
	c. Math Computation: Two Ideas to Jump-Start Active Academic Responding	
	d. Math Vocabulary: Preteach, Model, and Use Standard Math Terms	
	http://www.interventioncentral.org/academic-interventions/math/school-wide-strategies-managing-	
	<u>mathematics</u>	
	2 Number Operations, Strategic Number Counting Instruction	
	2. Number Operations: Strategic Number Counting Instruction http://www.interventioncentral.org/academic-interventions/math/number-sense-promoting-basic-	
	numeracy-skills-through-counting-board-ga-0	
	numeracy skins unough counting court gu o	
	3. Math Computation: Promote Mastery of Math Facts Through Incremental Rehearsal	
	http://www.interventioncentral.org/academic-interventions/math/math-computation-promote-mastery-	
	math-facts-through-incremental-rehearsa	

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I. BASIC MATH SKILLS

D. Research-Based Intervention Ideas:

- **4. Math Computation: Increase Accuracy By Intermixing Easy and Challenging Problems**http://www.interventioncentral.org/academic-interventions/math/math-computation-increase-accuracy-intermixing-easy-and-challenging-comp
- **5.** Math Computation: Student Self-Monitoring of Productivity to Increase Fluency http://www.interventioncentral.org/academic-interventions/math/math-computation-student-self-monitoring-productivity-increase-fluency

6. Cover-Copy-Compare

http://www.interventioncentral.org/academic-interventions/math/cover-copy-compare

7. Self-Monitoring: Customized Math Self-Correction Checklists

http://www.interventioncentral.org/academic-interventions/math/self-monitoring-customized-math-self-correction-checklists

8. Peer Tutoring in Math Computation with Constant Time Delay

http://www.interventioncentral.org/academic-interventions/math/peer-tutoring-math-computation-constant-time-delay

9. Number Sense: Promoting Basic Numeracy Skills through a Counting Board Game http://www.interventioncentral.org/academic-interventions/math/number-sense-promoting-basic-numeracy-skills-through-counting-board-ga-0

E. | Teaching Ideas & Sources:

1. Basic Math Skills – Teaching Ideas

http://departments.jordandistrict.org/specialed/staff/forms.html

2. Elementary Mathematics: Jordan School District

http://elemmath.jordandistrict.org/teachers/k-6/

3. Secondary Mathematics: Jordan School District

http://departments.jordandistrict.org/curriculum/mathematics/secondary/resources/index.html

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II.	MATH REASONING	
Α.	Math Reasoning	
	Math Reasoning moves students beyond simply memorizing facts to thinking beyond the rules and procedures in order to draw logical conclusions by developing an understanding of a situation, context, or concept and connecting it with other knowledge.	
В.	Students may have Difficulty in the Following Areas:	
	 For Young Children: Trouble organizing things in a logical way – putting round objects in one place and square ones in another For School-Age Children: Not familiar with math vocabulary Avoiding games that require strategy 	
	For Teenagers and Adults:	
	 Trouble with concepts of time, such as sticking to a schedule or approximating time Trouble with mental math Difficulty finding different approaches to one problem 	
C.	Research-Based Information Ideas:	
	1. School-Wide Strategies for Managing MATHEMATICS Intervention Central (www.interventioncentral.org) http://www.interventioncentral.org/academic-interventions/math/school-wide-strategies-managing-mathematics	
	a. Applied Problems: Encourage Students to Draw to Clarify Understanding	
	b. Applied Problems: Improving Performance Through a 4-Step Problem-Solving Approach	
	c. Math Vocabulary: Preteach, Model, and Use Standard Math Terms	
	d. Math Instruction: Support Students Through a Wrap-Around Instruction Plan	
	e. Math Problem-Solving: Help Students Avoid Errors With the 'Individualized Self-Correction Checklist'	
	f. Math Instruction: Consolidate Student Learning During Lecture Through the Peer-Guided Pause	
	g. Math Instruction: Unlock the Thoughts of Reluctant Students Through Class Journaling	
	2. Applied Math Problems: Using Question-Answer Relationships (QARs) to Interpret Math Graphics	
	http://www.interventioncentral.org/academic-interventions/math/math-problem-solving	
	3. Math Problem-Solving: Combining Cognitive & Metacognitive Strategies http://www.interventioncentral.org/academic-interventions/math/math-problem-solving-combining-cognitive-metacognitive-strategies	

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II. MATH REASONING

D. | Teaching Ideas & Resources

1. Secondary Mathematics: "A Teacher's Guide to Reasoning and Sense Making."

National Council of Teachers of Mathematics.

http://www.nctm.org/uploadedFiles/Math_Standards/Teacher_Guide_FHSM.pdf

2. Granite Vocabulary: Math Vocabulary Cards http://elemmath.jordandistrict.org/teachers/k-6/

3. Elementary Mathematics: Jordan School District

http://elemmath.jordandistrict.org/teachers/k-6/

4. Secondary Mathematics: Jordan School District

http://departments.jordandistrict.org/curriculum/mathematics/secondary/resources/index.html

5. Special Education Mathematic Resources: Jordan School District

http://elemmath.jordandistrict.org/special-ed/

6. Free Web Math Games: www.math/playground.com/wordproblems.html