U.C.A.R.E about Mathematics
Assessing Mathematical Proficiency

Activity_____Date: _____ Group_____

Students	1	2	3	4
Understanding				
• Understands problems or task; • Make connections to similar problems; • Uses models and multiple representations.				
Computing				
• Accurate computation; • Proper use of algorithm				
Applying				
• Formulates and carries out a plan; • Can create similar problems; • Can solve using appropriate strategies.				
Reasoning				
• Justifies responses logically; • Reflects on and explains procedures; • Explains concepts clearly.				
Engaging				
• Tackles difficult tasks; • Persevere; • Shows confidence in own ability; • Collaborates/Shares ideas.				

Scoring Rubric

4 Exceeds expectations
3 Fully meets expectations
2 Partially meets expectations
1 Does not meet expectations

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Assessing Mathematical Proficiency

Activity_____Date: _____

Student Name	Rating and Comments

Understanding
• Understands problems or task • Make connections to similar problems • Uses models and multiple representations	

Computing
• Proper use of algorithm • Accurate computation	

Applying
• Formulates and carries out a plan • Can create similar problems • Can solve using appropriate strategies	

Reasoning
• Justifies responses logically • Reflects on and explains procedures • Explains concepts clearly	

Engaging
• Tackles difficult tasks • Persevere • Shows confidence in own ability • Collaborates/Shares ideas	

Scoring Rubric
4 Exceeds expectations
3 Fully meets expectations
2 Partially meets expectations
1 Does not meet expectations

Strategies for Building Math Proficiency

Understanding	
• Understands problems or task • Make connections to similar problems • Uses models and multiple representations	Four corner Math Using multiple representations Webbing of math concepts
Computing	
• Proper use of algorithm • Accurate computation	CGI & Making meaning of operations Analyzing error patterns
Applying	
• Formulates and carries out a plan • Can create similar problems • Can solve using appropriate strategies	Problem solving Problem Posing Strategy chart
Reasoning	
• Justifies responses logically • Reflects on and explains procedures • Explains concepts clearly	Convince me Poster Proofs Stand up, Pair up, Share
Engaging	
• Tackles difficult tasks • Persevere • Shows confidence in own ability • Collaborates/Shares ideas	Problem based learning Literature link Math Happenings