*A*llegany –*L*imestone *C*entral *S*chool

3131 Five Mile Road   Allegany, New York   14706   www.ALCSny.org

APP Rationale Form
For the educational purchase of ipod/ipad apps…
(Please complete and submit this form to the technology office, through Heather Hunt.)

Teacher Name: Caroline Miller and Mary Jo Reed	Building: AL Elementary
Grade Level and Content Area: Grade 3, Math (While we are requesting these apps for our grade level, they will be valuable for all grade levels at the elementary building)	
Name and Cost of App: Math Slide Basic Math Facts School Edition, $2.99 Math Slide Place Value School Edition, $2.99	
URL of App, if available: Math Slide Basic Math Facts School Edition https://itunes.apple.com/us/app/math-slide-basic-facts-school/id601161318?mt=8 Math Slide Place Value School Edition https://itunes.apple.com/us/app/math-slide-place-value-school/id601161731?mt=8	
Brief description of the App: Math Slide is a multiplayer game helping children understanding place value of numbers up to 1,000. This School Edition contains the same games as Math Slide: tens & ones and Math Slide: Hundreds, tens & ones. Math Slide is a multiplayer game helping children to learn addition, subtraction, multiplication & division number facts. This School Edition contains the same games as Math Slide: Addition & Subtraction and Math Slide: Multiplication & Division.	
Plans for classroom use of the App: Students in grades K-5 will use the apps to practice the common core standards listed below in an engaging and competitive manner during math core curriculum and math block periods.	

Connection to NYSED P-12 Common Core Learning Standards &/or NYS Teaching Standards:
(see http://www.highered.nysed.gov/tcert/resteachers/teachingstandards.html or http://engageny.org/teachers/)

3.OA.1 Interpret products of whole numbers, e.g., interpret 5×7 as the total number of objects in 5 groups of 7 objects each. *For example, describe a context in which a total number of objects can be expressed as 5×7.*

3.OA.2 Interpret whole-number quotients of whole numbers, e.g., interpret $56 \div 8$ as the number of objects in each share when 56 objects are partitioned equally into 8 shares, or as a number of shares when 56 objects are partitioned into equal shares of 8 objects each. *For example, describe a context in which a number of shares or a number of groups can be expressed as $56 \div 8$.*

3.OA.7 Fluently multiply and divide within 100, using strategies such as the relationship between multiplication and division (e.g., knowing that $8 \times 5 = 40$, one knows $40 \div 5 = 8$) or properties of operations. By the end of Grade 3, know from memory all products of two one-digit numbers.

3.OA.9 Identify arithmetic patterns (including patterns in the addition table or multiplication table), and explain them using properties of operations. *For example, observe that 4 times a number is always even, and explain why 4 times a number can be decomposed into two equal addends.*

3.NBT.1 Use place value understanding to round whole numbers to the nearest 10 or 100.

3.NBT.2 Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.

3.NBT.3 Multiply one-digit whole numbers by multiples of 10 in the range 10–90 (e.g., 9×80, 5×60) using strategies based on place value and properties of operations.

Evidence that this App has worthwhile classroom value:
(include specific students groups who would use it, other contents areas where it could be used, access to a demo or tutorial on the App, etc)
Place value is the foundation of math instruction. These games give students experience with various ways to decompose and compose numbers strengthening their *mental math ability* in a fun and engaging manner.
Students are historically weak in math fact fluency. These apps give students their facts in a fun and engaging manner using multiple representations of all four operations so students are gaining experience with various strategies to help them *master their basic facts.*