## Lesson Plan



Teacher:	Wardensky	Grade Level and Subject:	Math and Language Arts	Time Frame:	45 minutes	
SOL Objectives						

Math 4.3b The students will round decimals to the nearest whole number

Math 4.3a The student will demonstrate fluency with multiplication facts through 12 × 12, and the corresponding division facts

**Math 4.15** The student will identify, describe, create, and extend patterns found in objects, pictures, numbers, and tables.

Language Arts 4.6 The student will read and demonstrate comprehension of nonfiction texts.

Essential Questions	Learning Objectives	Assessments
Students will work together to solve 4 locks to complete the Asteroid Collision digital breakout.  Problems include:	The students will work in collaborative groups to "Breakout" one of the Native American tribes by finding and working to unlock the 4 locks to breakout with at least 50% success.	Teacher observation:  Working in Collaborative group  Use of hint cards (What kind of questions are they asking?)  Breakout
Instructional Procedures		Differentiated Activities and Strategies
The teacher will:  Explain the rules of a digital Making sure to explain that a Read!) See attached sheet for Divide students into cooperate.  Pass out hint cards and explete Use iStation to show QR cooled Start the digital breakout.  Walk around and give hints it offer no help.  Debrief after the digital break.  The students will:  Scan the QR code with iPade.  Students work in a collaborate to "Breakout".	<ul> <li>Students will work at their own pace to complete the digital breakout with their group.</li> <li>If a student can't work with a group he can work alone.</li> </ul>	

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	Teacher Checklist			
	<ul> <li>☑ Critical thinking / Problem-solving</li> <li>☑ Communication / Collaboration</li> <li>☐ Transformative Connection</li> <li>☐ Project Based Learning</li> <li>☒ Higher Order Thinking Questions</li> <li>(Analytical, Synthesis, Interpretive, Evaluative)</li> <li>Notes:</li> </ul>			
Resources and Technology Connections				
Digital Breakout website: Asteroid Collision - <a href="https://sites.google.com/view/asteroidcollision4and5/home">https://sites.google.com/view/asteroidcollision4and5/home</a>				
iPads – 2 or 3 students per iPad				
QR Code Reader App				
Desktops – if needed				
iStation				
PPT of QR Codes				
Digital Breakout Vault: <a href="https://sites.google.com/view/digitalbreakoutvault/home">https://sites.google.com/view/digitalbreakoutvault/home</a>				

Hint Cards

Paper & Pencils or Dry Erase boards and marker Online timer: <a href="https://www.online-stopwatch.com/">https://www.online-stopwatch.com/</a>