| Grade: $4^{\text {TH }}$ | Subject: MATH |
| :---: | :---: |
| Materials: jeopardy sheet, red and green colored pencils, whiteboards and markers, math notebook | Technology Needed: Smart Board |
| Instructional Strategies:  <br>  Peer teaching/collaboration/ <br> Direct instruction cooperative learning <br> Guided practice Visuals/Graphic organizers <br> Socratic Seminar PBL <br> Learning Centers Discussion/Debate <br> Lecture Modeling <br> Technology integration  <br> Other (list)  | Guided Practices and Concrete Application: |
| Standard(s) <br> 4.OA. 4 find all factor pairs for a whole number range 1-36. Recognize that a whole number is a multiple of each of its factors. Determine whether a given whole number in the range 1-36 is a multiple of a given one digit number or is prime or composite. <br> 4.NBT. 2 Read and write multi-digit whole numbers to the one millions place using base-ten numerals, word form and expanded form. Compare two multi-digit numbers based on meanings of the digits in each place, using $>,=$, and < symbols to record the results. <br> 4.NBT. 4 fluently add and subtract multi digit whole numbers to the one millions place using strategies flexibly, including the standard algorithm. <br> Objective(s) <br> TSW compare multi-digit numbers based on the meanings of the digits in each place. <br> TSW solve addition and subtraction problems using various addition and subtraction strategies. <br> TSW classify a number as prime or composite, then list the number's factors. <br> Bloom's Taxonomy Cognitive Level: <br> Knowledge: list; comprehension: compare \& classify; application: solve | Differentiation <br> Below Proficiency: lower value questions are easier or more basic level <br> Above Proficiency: higher value questions are more challenging <br> Approaching/Emerging Proficiency: a few questions of middle value are an average level for students <br> Modalities/Learning Preferences: visual, auditory, tactile |
| Classroom Management- (grouping(s), movement/transitions, etc.) <br> Groups will be either science groups or based on pods. <br> Movement: if walking to group, voice level 0-1. | Behavior Expectations- (systems, strategies, procedures specific to the lesson, rules and expectations, etc.) <br> Voice level should be 0 for individual solving time; low voice 1-2 during collaboration. When sharing out, voices off as others talk |


| Transitions: clap thumbs up/do | get attention; chimes; sound of timer, then assess before transitioning to new problem | Expectations: use whiteboard for solving problems, not drawing. |
| :---: | :---: | :---: |
| Minutes | Procedures |  |
| 2 min | Set-up/Prep: <br> Have the jeopardy game open and loaded message on the board: "Good morning! Miss white board, eraser \& marker, 2) 1 green and and subtraction strategies we practiced this <br> http://playfactile.com/4thgrademathsa | Board. Greet the students upon arrival prompting them to read the $n$ will be leading a math game this morning. Please grab these items: 1) colored pencil, 3) math notebook... Do you remember all of the addition |
| 3 min | Engage: (opening activity/ anticipatory Set <br> GOOOOD MORNING ladies and gentlemen practicing the addition/subtraction strateg comparing them." So, let's get into our tea | s prior learning / stimulate interest /generate questions, etc.) <br> , I Miss Arman, will be your host on Math Jeopardy! We will be have been using, as well as working with factors, writing numbers, and ence or pods). Label groups 1, 2, 3, 4, 5, 6. |
| 7 min | Explain: (concepts, procedures, vocabulary <br> Each group will take turns choosing a categ problems in a few ways. I will display the voice level of 0 . You alone will solve the pr your answers and how you solved them (t let me know your group is ready for the an wait. After seeing the answer, you will color Coloring is based on your individual answe green; if you did it wrong, color it red. I will <br> RECAP: <br> 1. Solve alone <br> 2. Discuss answer <br> 3. Hold card if you're ready <br> 4. Color if you (alone) got it right/w <br> Thumbs up/ down if you understand and you | ue and answering the question. While playing, we will solve the and for the first minute or so, you will be working by yourself with a on your whiteboard. When the timer goes off, your groups will discuss ch other). After agreeing on an answer, you will hold up a green card to fter you show you're ready, I expect voices to be off as you patiently alue square for the question either red (for wrong) or green (for right). he group answer. If you have solved it correctly on your own, color it ou for the first few rounds. <br> eady to begin. |
| 33 min | Explore: (independent, concreate practice experiences, reflective questions- probing <br> Students work in "I do, we do, you do"; I exp place when students have the first 1 or 2 m then share out to the whole class. The gam numbers, and comparing numbers. <br> Clarifying question after each: "Thumbs up many are down have a volunteer to solve. | tion with relevant learning task -connections from content to real-life ying questions) <br> he game, possibly model example if there is confusion, you do takes to solve on their own. We do is when the students discuss in groups, s independent/concrete practice for addition, subtraction, writing <br> lown, did you get it, kind of, or no?" Move on if majority is up or side, if |
|  | Review (wrap up and transition to next act |  |


| 2 min | "Please total up the points you got correct sure you ONLY colored the numbers we a | and hand it to me before you quietly line up. Double check to make red." |
| :---: | :---: | :---: |
| Formative A <br> Progress m check- <br> in strategie <br> ask question <br> Float around <br> Thumbs up <br> "Can you s <br> Considerat <br> Create my ow individually | nt: (linked to objectives) <br> ing throughout lesson- clarifying questions, did you come up with that? <br> how students are doing. <br> quick assessment <br> how...?" <br> Back-up Plan: <br> lem or question for students to solve e boards | Summative Assessment (linked back to objectives) <br> End of lesson: <br> Take assessment on Friday with Mrs. Churchill over the categories we practiced <br> If applicable- overall unit, chapter, concept, etc.: <br> Operations and algebraic thinking <br> Number and operations in base 10 |
| Reflection (V <br> This lesson w the students discuss in grour word and ex know that th right and wh This game w anything, I w a few studen struggled, to | ent well? What did the students learn? How <br> y well. The students were engaged and en tood it and were eager to begin. I placed a hold up card, 4) color in answer. The stude form, determining factors to be prime or nts learned this because they handed in th got wrong. I was able to identify any patt I because the students enjoyed it so much. ake sure float around to students whom I wish I would've been able to help more st | you know? What changes would you make?): <br> d this review. My introduction and explanation of the game went smooth al aid listing the steps they would take on the board: 1) solve alone, 2) earned/reviewed addition and subtraction strategies, writing numbers oosite and listing the factors, and comparing numbers using >,< and =. I eopardy sheet which showed me at a glance which questions students or common errors between the students because of this colored in she as thrilled to see that they loved something I created. If I would change struggle with certain problems to ensure their participation. I did this ts at once. However, it was great that Mrs. Dietrich helped students th |


| Add it up! | Subtraction | Factors | Expanded form | Write number <br> in words | Greater than <br> or less than? |
| :---: | :---: | :---: | :---: | :---: | :---: |
| $\$ 100$ | $\$ 100$ | $\$ 100$ | $\$ 100$ | $\$ 100$ | $\$ 100$ |
| $\$ 200$ | $\$ 200$ | $\$ 200$ | $\$ 200$ | $\$ 200$ | $\$ 200$ |
| $\$ 300$ | $\$ 300$ | $\$ 300$ |  |  |  |
| $\$ 400$ |  |  |  |  |  |
| $\$ 400$ | $\$ 400$ |  |  |  |  |
| $\$ 300$ |  |  |  |  |  |

