**Multiplication and division**

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| **Grade(s)** | 4th  |
| **Subject(s)** | Mathematics  |
| **Length of Lesson**  | Ten 45 minute classes |
| **Lesson** **Overview/ Rational** | After this lesson students should be able to know how to divide and multiply small numbers. Also students will understand the relationship between multiplication and division. Students will know that if they know their multiplication table, then they will be able to divide easily |
| **Curriculum** **Framework/ Standard** | Michigan Common Core State Standers for Mathematics: Grade 4* 4.OA: Operations and Algebraic Thinking
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| **Learning Objectives** | * Students will learn how to multiply small numbers, than they will know the relationship between multiplication and division. Also I will show them some ways to learn how to divide easily.
* I will also tell students about some useful applications to play at home on their devices that will help them to learn how to multiply and divide. Also I will let students play multiplication and division games on the computers to make the lesson more fun and understandable.
* At the end students will play with each other with flash cards to practice more with each other.
* For homework I will be giving students some problems to solve to practice at home.
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| **Technology Uses** | Students will use the computers to play some multiplication division games online on some websites.* Students will use mulitibcation.com to improve in multiplication by playing games on this website.
* Students will use kidsnumbers.com to play some division games, so they can have fun and improve at the same time in division.
* I will also tell students about some useful game applications like “multiply\_free” and “multiplication” to download on their i touch devices to improve in multiplication and division. (optional)
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| **Materials**  | * Computers with internet network.
* IPods, iPads, or iPhones. (optional)
* Flash cards.
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| **Procedure** | 1. First I will pass a sheet of multiplication and division problems so I can know how many students know how to multiply and divide already.
2. I will start to show students how to multiply small numbers first, then move on to multiply bigger numbers.
3. After I will start to teach students how to divide small numbers first and then big numbers. I will also teach the students the relationship between multiplication and division, and learning how to multiply will help to learn how to divide easily.
4. After I will let students spend some time playing multiplication and division games on computers.
5. I will show the students how to make flash cards, and tell them to make their own flash cards (that will be as homework beside their work sheet.)
6. I will keep giving the students in class work sheets, and I will also give them some problems to practice at home (homwwork.)
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| **Assessment**  | Students will be graded based on:* Tests.
* Homework.
* In class wok sheets.
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