Multiplication Tic-Tac-Toe

This is a choice menu designed to help students master their multiplication facts. This activity allows students to focus on specific facts with which they are having trouble. Most classrooms have students work on facts one set at a time, and students are often on different levels of mastery. This is an easy way to differentiate practice so that all students are working on their personal goals.

Directions for use:

1. Pass out the tic-tac-toe board, and have students write their names and the due date at the top.
2. Have students fill in their personal facts on the right hand side. For example, if a student is currently working on 3's facts, then he/she would write the facts from 3 x 0 = 0 to 3 x 12 = 36, then fill in the last 2 spaces with facts of the teacher's choice (ex: review or challenge facts). This can also be used as a review of mixed facts. You do not have to use all 15 lines.
3. Students complete the facts following the instructions below. The activities they choose should make a "tic-tac-toe" pattern on the board. Note: materials needed are listed in bold.

<u>Flash Cards</u> – (**index cards, sandwich bag**) Have students make flash cards of the facts that they are currently working to master. Students should write the problem on the front and the answer on the back. Provide students with a sandwich bag to store their cards, and model how to use the cards to study.

<u>Grid Paper Arrays</u> – (**grid paper**) Students use grid paper to draw a rectangle array of each fact.

<u>Fact Families</u> – **(paper)** First, students list the multiplication fact, and the 3 other related facts. Then, students draw a house around each set of facts.

<u>Roll-a-fact</u> – **(numbered cube, paper)** For each fact, students roll a numbered cube to determine how many times they must write the fact.

<u>Peek-a-boo Facts</u> – **(sticky notes, paper)** First, students place sticky notes on a piece a paper. Then, they write the fact on the outside of the sticky note and the product on the paper underneath. Finally, model how to read the fact, then peek to check it.

<u>Rainbow Facts</u> – **(crayons, colored pencils, or makers, paper)** Students write their facts 3 times each using different colors and in the shape of a rainbow.

<u>Three Times Each</u> – **(paper)** Students write their facts three times each.
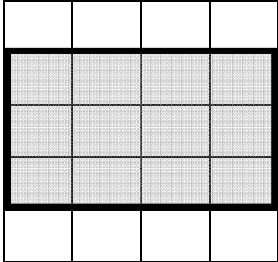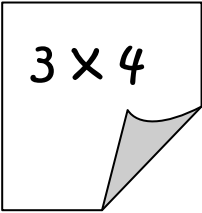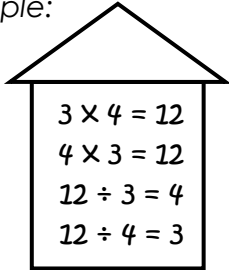
<u>Cross Facts</u> – **(paper)** Students write their facts horizontally, then vertically using the common number.

<u>Flip-Flop Facts</u> – **(paper)** Students write each fact, then flip the factors around (commutative property) and write the again.

Name _____ Due Date _____

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First, record the facts with which you will be working. Then, choose three activities to complete by the due date above. Choices must make a "tic-tac-toe" by connecting 3 in a row either horizontally, vertically, or diagonally.

Flash Cards	Roll-a-Fact	Three Times Each	My Facts:
Example: Front Back 3 X 4 12	*Example:* 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12	*Example:* 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12	1._____ 2._____ 3._____ 4._____ 5._____
Grid Paper Arrays	**Peek-a-boo Facts**	**Cross Facts**	6._____
Example: 3 X 4 = 12	*Example:* 3 X 4	*Example:* 3 X4 3 X 4 = 12 X 4 12	7._____ 8._____ 9._____ 10._____
Fact Families	**Rainbow Facts**	**Flip-Flop Facts**	11._____
Example: 3 X 4 = 12 4 X 3 = 12 12 ÷ 3 = 4 12 ÷ 4 = 3	*Example:* 3 X 4 = 12 3 X 4 = 12 3 X 4 = 12	*Example* 3 X 4 = 12 4 X 3 = 12	12._____ 13._____ 14._____ 15._____