

Teaching Plan/ Lesson Plan for

Revision of Mathematical Expression & BDMAS rule

Title:

Revision of mathematical expression and BDMAS rule.

Overview/ Annotations:

Makes the child think of their own mathematical expressions and use BDMAS rule to solve it themselves as the player plays each move. Play the game 'Mathema Tik Tac Toe' in the class as a part of revision and fun.

Primary learning objectives:

At the end of this activity the students would have got a practice of making different mathematical expressions and using BDMAS rule

Additional learning:

Practice of mental mathematics and strategy formation

Approximate duration: 15 mins

Material and equipment:

Mathema Tik Tac Toe game sets... one set for a group of 2 students.

Pre-requisite:

Students should know the concept of mathematical expression and ways of solving it. Familiarity with BDMAS rule will enhance the learning.

Preparation required: None

Procedure :

Explain and Practice the idea of making a number using two or three different numbers. E.g. I want to make the number 5 and I have three numbers 1, 7 and 2. How can I make the number? Or Take any three numbers from 1 to 9 and using them make the number -4.

Also take few examples like what is $2 - (3+4)$?

Make sure they understand how to solve such expression. There is no need to give BDMAS as a rule to remember at this juncture.

Make pairs of students.

Explain how to play **Mathema Tik Tac Toe** game and different rules as explained in the manual.

Ask them to play a couple of times by changing the partners.

After the students have played the game ask examples similar to the ones above. Choose the examples so that every term of BDMAS rule is used somewhere or other. Ask students to play the game again with this practice.

Assessment strategies:

Observe the students while playing, encourage them to strategize to block other players line while making your own. Ask students to think ahead (How will this help you in longer run to make your line? Can you achieve dual purpose of making your line as well as blocking your opponent's line?)

Encourage students to form negative numbers while playing. This is an often neglected part and students remain apprehensive with operations using negative numbers

Remediation:

Observe the students while playing, if you notice some students are having difficulty in forming expressions help them by suggesting to think of different moves.

If you find that the students are not comfortable with operations with negative numbers take the "minus x minus game" (available with Novavia Educational Products) in the class.

Homework:

Ask student to play the game again during their spare time. Next day give at least 10 sums that involve solving numerical expressions.