

## Grade 7 | Algebraic Expressions | Session Time: 50mins (6<sup>th</sup> February, 2017)

Topic	Algebraic Expression (BODMAS)
Objective- <b>Why is this of Value</b>	Student will simplify Algebraic Expression through BODMAS and hence giving speed and accuracy test through worksheet..
Vocabulary	BODMAS
LOs / resources	Discussion, Worksheet Ruled Sheet.

Pre work	<ul style="list-style-type: none"> <li>• NA</li> </ul>	Time Min
<b>Session</b>	<b>How will I SHOW value</b>	
Setting	<ul style="list-style-type: none"> <li>• Take this time to set the class in the class room. Have students organize their seats and work, are organized for their session.</li> <li>• Check <b>seating arrangement, ventilation, notebook</b></li> <li>• Get students to open their work, as needed.</li> </ul>	5
Hook/Reconnect	<ul style="list-style-type: none"> <li>• Teacher will recap the previous session through the technique of questioning.</li> </ul>	5
Teacher- Instruction time	<ul style="list-style-type: none"> <li>• Teacher will first ask the “WHY” of using a BODMAS.(Its a tool to simplify expression).</li> <li>• Teacher and students will discuss the “ WHY” and will reach to a common consensus.</li> <li>• Teacher will write an Expression on the board (Oxford textbook, pg.86,Ex.6.4 Q: 3 (d)). Teacher will ask them what do you think which step will com first and why?</li> <li>• Teacher along with the students, will simplify the expression through BODMAS.</li> <li>• Teacher will write another expression from the oxford textbook ( pg 86, ex.6.4) and will ask one of the kids to come on board and explain it with steps.</li> <li>• Teacher will discuss the relevance of showing the steps.</li> <li>• Teacher will then distribute the worksheets which will assess them on speed and accuracy.</li> </ul>	30

<b>Pause</b>	<b>Go back to the objective –Now do you see.....</b>	
POU	<ul style="list-style-type: none"> <li>● Students will solve the worksheet..</li> </ul>	10
Note taking/ Question Protocol	<ul style="list-style-type: none"> <li>• Note take along with session</li> </ul>	
Answering- Clarification time	<ul style="list-style-type: none"> <li>• Teacher clarifies or facilitates other students to respond to the doubts students raise.</li> <li>• Teacher should also use this time to walk around the class, and check student notes.</li> </ul>	
Key take away of content	<ul style="list-style-type: none"> <li>• Students to share and record relevance of topic and make connections</li> </ul>	
<b>Closing the loop using the board</b>	<b>Go back to the objective / highlight how the session went / which students added value / who took away / what surprised us / what is follow up plan ( BA )</b>	

# BOARD WORK

Small Board

an opportunity to seed heart and hand!!!

$$[xy + (xy - 4x^3 + 3x - 5) - \{-3x - 4\} - (xy + x^3 - 4)]$$

$$\Rightarrow [xy + (xy - 4x^3 + 3x - 5) - \{-3x - 4\} - xy - x^3 + 4]$$

$$\Rightarrow [xy + (xy - 4x^3 + 3x - 5) - \{-3x - 4 - xy - x^3 + 4\}]$$

$$\Rightarrow [xy + (xy - 4x^3 + 3x - 5) - \{-3x - 4 + 4 - xy - x^3\}]$$

$$\Rightarrow [xy + (xy - 4x^3 + 3x - 5) + 3x + xy + x^3]$$

Main Board

DATE 06/02/2017	IS OF VALUE (RELEVANCE)	LANGUAGES OF LEARNING
TOPIC Algebraic Expression (BODMAS)	Simplifying Expression through BODMAS and testing Speed and Accuracy.	Discussion / Worksheet
😊 Kampa Prisha Raavee Meesha Layaa	<p>SHOW VALUE (GUIDED INQUIRY) OXFORD Ex 6.4 Q 3(d) Pg 86</p> $= 3a - [a + b - \{a + b + c + (a + b + c + d)\}]$ <p>Explain!!! why???</p> $= 3a - [a + b - \{a + b + c - a - b - c - d\}]$ $= 3a - [a + b - \{a - a + b - b + c - c - d\}]$ $= 3a - [a + b - \{0 + 0 + 0 - d\}]$ $= 3a - [a + b - \{-d\}]$ $= 3a - [a + b + d]$ $= 3a - a - b - d$ $= 2a - b - d$ <p>Continuation of Small board.</p> $\Rightarrow [xy + xy - 4x^3 + 3x - 5 + 3x + xy + x^3]$ $\Rightarrow [xy + xy + xy - 4x^3 + x^3 + 3x + 3x - 5]$ $\Rightarrow 3xy - 3x^3 + 6x - 5$	<p>KNOWLEDGE (FACTS VOCABULARY &amp; DEFINITION)</p> <p>BODMAS</p> <p>Curly Box</p> <p>{ ( ) }</p>
☹️	<p>AGENDA FOR THE DAY</p> <p>Simplifying Expressions through BODMAS</p>	<p>ADD VALUE (BA POU)</p> <p>Oxford Pg 86</p> <p>Ex 6.4</p> <p>Q 5, 6, 7, 12, 13</p>