



# BOARD PROTOCOL: SAMPLE

THE BOARD *ENABLES* TEACHERS TO CONVERT *INTENTION INTO ACTION*

## EXAMPLE – GRADE 01 | LOGICAL AND MATHEMATICAL THINKING SESSION

<b>UNDERSTANDING GOAL</b>	<ul style="list-style-type: none"> <li>○ Students will understand the advantages of the decimal number system.</li> <li>○ Students will identify the rules of the decimal number system. (like place value, numerals etc.)</li> <li>○ Student will understand where the quality of tenness comes from in our number system.</li> </ul>
<b>OBJECTIVE(S)</b>	<ul style="list-style-type: none"> <li>○ To make our own number system using rules of existing number system.</li> <li>○ To assess the prior knowledge of students about decimal number system. (before teaching decimal fractions)</li> </ul>
<b>TOPIC(S)</b>	Decimal Number System
<b>VOCABULARY</b>	Vocabulary: Hieroglyphs, Hindu-Arabic Number system, Decimal Number System
<b>TEACH</b>	The origin of our number system and its quality of tenness.
<b>REACH</b>	Relevance of relevance, Knowing the why helps
<b>DATE</b>	11-Sep-19
<b>TIME</b>	Block session (12:00 – 12:45) (1:00 – 1:45)
<b>MINDFULNESS</b>	Students close their eyes and teacher asks them mental math questions. Students show their responses using fingers. (e.g. how much is 21 – 12?)
<b>RELEVANCE</b>	By making our own number systems we will able to understand the decimal number system in a better way.
<b>LOL</b>	Story, Discussion

**PERSONAL AND PROFESSIONAL DEVELOPMENT PILLAR**

<b>SESSION FLOW</b>	<b>DESCRIPTION</b>
<b>GUIDED INQUIRY</b>	<p>Number Systems</p> <ul style="list-style-type: none"> <li>○ Teacher starts the session by setting the agenda and criteria.</li> <li>○ Teacher starts the story of numbers by sharing that there was a time when there were no numbers or Math. How the need for counting led the people to use their fingers and other objects to count. Later, people started using symbols.</li> <li>○ Teacher writes the different Egyptian hieroglyphs on the board and writes a number using hieroglyphs on the board. Students decode the number by discussing with a partner.</li> <li>○ Teacher then writes a number in decimal number system, and asks the student to compare the two number systems. (differences, similarities).</li> <li>○ Teacher then lists down the rules of decimal number system by way of questioning the students. (Numerals [0-9], adding places to the left, place value increases ten times). Teacher points out the quality of tenness in our system, ten numerals, each place value becomes ten times the previous.</li> <li>○ Next, teacher asks the students that now we create our own number system where there are only 5 numerals [0—4] and all other rules remain the same. In groups, students write the first twenty numbers of such a number system.</li> <li>○ In BA, the student write the first 30 numbers of a number system with only 7 numerals [0-6]</li> </ul>
<b>POU</b>	First 20 numbers of a five number system in their notebooks.
<b>CTL</b>	<ul style="list-style-type: none"> <li>• What can we name the new number system?</li> <li>• What will be the different place values in this new number system?</li> <li>• How will be the decimal counterpart of the number 14 in this number system?</li> <li>• Which is better knowing how to use the car or knowing how to make the car?</li> <li>• How will, learning to make a new number system, help them in using the decimal system?</li> </ul>
<b>REFLECTION</b>	There was good participation by students. 4 groups out of 6 were able to list the numbers of the new system. The session went a little over time.



EXAMPLE - BOARD PICTURE

DATE 11.9.2019	IS OF VALUE (RELEVANCE)	LANGUAGES OF LEARNING																		
TOPIC Decimals:	Making our own number-system to understand decimal number system																			
😊 All	<p>SHOW VALUE (GUIDED INQUIRY)</p> <p>Decimal Number System</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>1000</td><td>100</td><td>10</td><td>0</td></tr> <tr><td>500</td><td>25</td><td>5</td><td>0</td></tr> </table> <p>Pentamal</p> <table border="1" style="display: inline-table; margin-right: 20px;"> <tr><td>0</td><td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td></tr> </table> <p> <math>D \rightarrow \overset{10}{24} = 20 + 4 = 24</math>  <math>P \rightarrow \overset{5}{24} = 2 \times 5 + 4</math>  <math>FU = 14</math>  <math>33 = 3 \times 5 + 3</math>  <math>FU = 18</math>  <math>134 = 25 \times 1 + 3 \times 5 + 4 \times 2 = 44</math> </p>	1000	100	10	0	500	25	5	0	0	1	2	3	4	5	6	7	8	9	<p>KNOWLEDGE (FACTS VOCABULARY &amp; DEFINITION)</p> <ul style="list-style-type: none"> <li>- Counting</li> <li>- Hieroglyphs.</li> <li>- Hindu-Arabic number system</li> <li>or</li> <li>The Decimal Number System.</li> </ul>
1000	100	10	0																	
500	25	5	0																	
0	1	2	3	4	5	6	7	8	9											
<p>AGENDA FOR THE DAY</p> <ul style="list-style-type: none"> <li>- MM ✓</li> <li>- Story ✓</li> <li>- Group.</li> <li>- CTL</li> </ul> <p>             → EB              → GR (fill)              →         </p>		<p>ADD VALUE (BA POU)</p> <p>Create your own number system using 0, 1, 2, 3, 4, 5, 6 (first 30)</p>																		

