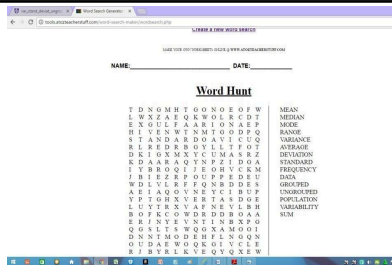


GRADE 7 DAILY LESSON LOG	School		Grade Level	7
	Teacher		Learning Area	MATHEMATICS
	Teaching Dates and Time		Quarter	FOURTH

	Session 1	Session 2	Session 3	Session 4
I. OBJECTIVES				
1. Content Standards	The learner demonstrates understanding of key concepts, uses and importance of Statistics, data collection/gathering and			
2. Performance Standards	The learner is able to collect and organize data systematically and compute accurately measures of central tendency and v			
3. Learning Competencies/ Objectives	The learner illustrates the measures of variability (range, average deviation, variance, standard deviation) of a statistical data. (M7SP-IVh-1) a. Identify the range of a set. b. Find the range of a grouped and ungrouped data. c. Appreciate the concept of variation in real life situations	The learner illustrates the measures of variability (range, average deviation, variance, standard deviation) of a statistical data. (M7SP-IVh-1) a. Describe the measures of variability in a given set of data. b. Illustrate the different measures of variability of a given grouped data: range, variance, standard deviation c. Appreciate the concept of variation in real life situations.	The learner calculates the measures of variability of grouped and ungrouped data. (M7SP- IVh- i-1) a. Describe the measures of variability in a given set of ungrouped data. b. Calculate the different measures of variability of a given ungrouped data: range, average deviation c. Appreciate the concept of variation in real life situations	The learner calculates the measures of variability a. Describe the measures of variability b. Calculate the different measures of variability c. Appreciate the concept of variation in real life situations

II. CONTENT	Measures of Variability	Measures of Variability	Measures of Variability of Ungrouped Data	
III. LEARNING RESOURCES				
A. References				
1. Teacher's Guide pages			pp 78- 85	pp 78- 85
2. Learner's Materials pages	er's Material pp. 507- 519	ematics Learner's Module G8 page 511- 512	pp 37- 38	pp 38- 39
3. Textbook pages	DepEdMathematics-Grade 8, Advanced Algebra with Trigonometry and Statistics (Third Edition) pp. 161		G-Math Advanced Algebra, Trigonometry, Calculus, Statistics by Magalona, Norlito pp.371- 381	G-Math Advanced Algebra, Trigonometry
4. Additional Materials from Learning Resource (LR) portal	https://www.youtube.com/watch?v=DsFCi_u1G_8 http://www.mathgoodies.com/lessons/vol8/range.html	http://www.glencoe.com/sites/pdfs/impact_math/ls9_c1_mean_absolute_deviation.pdf	http://tools.atozteacherstuff.com/word-search-maker/wordsearch.php	
B. Other Learning Resources / Materials	Grade 7 LCTG by DepdEd Cavite Mathematics 2016, TV, Powerpoint Presentation	Grade 7 LCTG by DepdEd Cavite Mathematics 2016, TV, Powerpoint Presentation	LCD, Laptop, Pictures/Illustrations/Figures	LCD, Laptop, Pictures/Illustrations
IV. PROCEDURES				

A. Reviewing previous lesson or presenting the new lesson	WORD HUNT Find the words you think are related in Statistics <table><tr><td>F</td><td>Q</td><td>A</td><td>J</td><td>O</td><td>S</td><td>H</td><td>U</td><td>A</td><td>M</td><td>N</td><td>B</td><td>V</td><td>C</td><td>A</td></tr><tr><td>G</td><td>S</td><td>V</td><td>S</td><td>D</td><td>F</td><td>G</td><td>H</td><td>T</td><td>M</td><td>G</td><td>H</td><td>J</td><td>K</td><td>L</td></tr><tr><td>H</td><td>S</td><td>E</td><td>R</td><td>S</td><td>D</td><td>F</td><td>G</td><td>H</td><td>J</td><td>K</td><td>S</td><td>F</td><td>R</td><td>L</td></tr><tr><td>I</td><td>F</td><td>R</td><td>A</td><td>A</td><td>F</td><td>V</td><td>B</td><td>N</td><td>M</td><td>H</td><td>T</td><td>S</td><td>T</td><td>V</td></tr><tr><td>L</td><td>N</td><td>A</td><td>E</td><td>X</td><td>N</td><td>Z</td><td>X</td><td>C</td><td>V</td><td>B</td><td>A</td><td>N</td><td>M</td><td>S</td></tr><tr><td>M</td><td>U</td><td>G</td><td>Q</td><td>W</td><td>E</td><td>G</td><td>R</td><td>T</td><td>Y</td><td>H</td><td>N</td><td>D</td><td>G</td><td>H</td></tr><tr><td>D</td><td>Y</td><td>E</td><td>F</td><td>H</td><td>H</td><td>K</td><td>E</td><td>G</td><td>A</td><td>B</td><td>D</td><td>B</td><td>M</td><td>D</td></tr><tr><td>A</td><td>T</td><td>T</td><td>D</td><td>A</td><td>Q</td><td>E</td><td>G</td><td>B</td><td>M</td><td>M</td><td>A</td><td>A</td><td>G</td><td>V</td></tr><tr><td>G</td><td>R</td><td>T</td><td>F</td><td>X</td><td>F</td><td>V</td><td>O</td><td>A</td><td>D</td><td>F</td><td>R</td><td>C</td><td>B</td><td>A</td></tr><tr><td>Y</td><td>W</td><td>R</td><td>R</td><td>T</td><td>H</td><td>B</td><td>H</td><td>Y</td><td>M</td><td>B</td><td>D</td><td>A</td><td>S</td><td>R</td></tr><tr><td>H</td><td>Q</td><td>S</td><td>Q</td><td>R</td><td>T</td><td>P</td><td>O</td><td>I</td><td>U</td><td>Y</td><td>Q</td><td>E</td><td>E</td><td>I</td></tr><tr><td>D</td><td>E</td><td>V</td><td>I</td><td>A</td><td>T</td><td>I</td><td>O</td><td>N</td><td>R</td><td>Y</td><td>V</td><td>U</td><td>T</td><td>A</td></tr><tr><td>J</td><td>S</td><td>H</td><td>T</td><td>Y</td><td>U</td><td>I</td><td>O</td><td>P</td><td>A</td><td>S</td><td>D</td><td>F</td><td>G</td><td>N</td></tr><tr><td>G</td><td>R</td><td>F</td><td>J</td><td>R</td><td>A</td><td>G</td><td>E</td><td>K</td><td>E</td><td>V</td><td>I</td><td>N</td><td>I</td><td>C</td></tr><tr><td>J</td><td>F</td><td>J</td><td>L</td><td>F</td><td>M</td><td>B</td><td>C</td><td>D</td><td>G</td><td>H</td><td>J</td><td>S</td><td>H</td><td>E</td></tr></table>	F	Q	A	J	O	S	H	U	A	M	N	B	V	C	A	G	S	V	S	D	F	G	H	T	M	G	H	J	K	L	H	S	E	R	S	D	F	G	H	J	K	S	F	R	L	I	F	R	A	A	F	V	B	N	M	H	T	S	T	V	L	N	A	E	X	N	Z	X	C	V	B	A	N	M	S	M	U	G	Q	W	E	G	R	T	Y	H	N	D	G	H	D	Y	E	F	H	H	K	E	G	A	B	D	B	M	D	A	T	T	D	A	Q	E	G	B	M	M	A	A	G	V	G	R	T	F	X	F	V	O	A	D	F	R	C	B	A	Y	W	R	R	T	H	B	H	Y	M	B	D	A	S	R	H	Q	S	Q	R	T	P	O	I	U	Y	Q	E	E	I	D	E	V	I	A	T	I	O	N	R	Y	V	U	T	A	J	S	H	T	Y	U	I	O	P	A	S	D	F	G	N	G	R	F	J	R	A	G	E	K	E	V	I	N	I	C	J	F	J	L	F	M	B	C	D	G	H	J	S	H	E	Find the mean: 3, 8, 8, 8, 8, 9, 9, 9, 9 15, 16, 17 14, 17,11		Identify between the two groups w First Group: 80, 83, 78, 91, 78, Second Group: 76, 94, 76, 85, 89,
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B. Establishing a purpose for the lesson	video: https://www.youtube.com/watch?v=DsFCi_u1G_8 the range: 12, 30, 35, 28, 16 40, 45, 30, 33, 27, 38 60, 78, 30, 45, 65, 72, 64 25.6, 28, 30.5, 40, 35 38.5, 85.3, 64.9, 41, 37, 50.5 - How to find the range for ungrouped data?	h video: https://www.khanacademy/math/cc-sixth-grade-math/cc-6th-data-statistics/cc-6-mad/v/mean-absolute-deviation er the following questions: - How to find the average deviation? - What is the formula in finding the average deviation?	THUMBS UP OR THUMBS DOWN? If the statement is correct, do the THUMBS UP. Otherwise, THUMBS DOWN. Justify your answer. - If I have a set of numbers 2, 5,3,10 and 5, therefore the mean is 5. 3, 4, 5, 6, 7, 8, 9 and 10, the middle value is 6. - The most common measures of variability are	- Describe each group in the prev - Which between the two groups - Would the range and the averag																																																																																																																																																																																																																																	

	- What is the use of range?	3. From the given above, what is the average deviation?	the range, mean, median and mode. 4. Variance and standard deviation are the same. 5. Variation is the amount of dispersion, or “spread” of the values in the set of data.	
C. Presenting examples/ instances of the lesson	Example no. 1 The following are the daily wages of 8 factory workers of two garment factories, factory A and factory B. Find the range of salaries in Peso (Php). Factory A: 400, 450, 520, 380 482, 495, 575, 450 Factory B: 450, 400, 450, 480, 450, 450, 400, 672 Finding the range of wages: – Wage range in A – Wage range in B = – Comparing the two wages, which factory has a more scattered wages? <i>Factory B</i> Example no. 2	Students are taking remedial classes. One of their quizzes scores are 12, 17, 13, 18, 18, 15, 14, 17, 11. Their teacher wants to find how the students’ scores scattered. To do that he used the average deviation instead of range to get a better approximation and he got 2.22. Based on the given situation, describe how scattered the scores of the students having 2.22 of average deviation	Consider the scores of nine Grade 7 students of sections Guyabano and Chico of Naic National High School. Do the following procedure. (See table at attached DLP) a. Arrange the scores in ascending order. b. Find the mean and median score of each section. What did you observe? <i>*Both sections have the same mean and median.</i> c. Analyze the spread of the scores of each section from the mean. Which	Consider the scores of nine Grade 7 students of sections Guyabano and Chico of Naic National High School. Do the following procedure. - Compute the Variance. $\text{Guyabano: } \sigma^2 = \frac{\sum(x-\bar{x})^2}{N} = \frac{358}{9} = \underline{\underline{39.78}}$ $\text{Chico: } \sigma^2 = \frac{\sum(x-\bar{x})^2}{N} = \frac{288}{9} = \underline{\underline{32}}$ <u>Standard Deviation:(SD)</u> $SD = \sqrt{\frac{\sum(x-\bar{x})^2}{N}} \text{ or } SD = \sqrt{\sigma^2}$ - Compute the standard deviation. $\text{Guyabano: } SD = \sqrt{\sigma^2} = \sqrt{39.78} = \underline{\underline{6.31}}$ $\text{Chico: } SD = \sqrt{\sigma^2} = \sqrt{32} = \underline{\underline{5.66}}$

To find the range of a group.

Score	Frequency
29	
24	
19	
14	
	= 2

For grouped data, the range is the difference of the boundaries of the highest class interval and the lowest class interval.

$$\begin{array}{r} \text{Upper Real Limit} = 29.5 \\ - \text{Lower Real Limit} = 4.5 \\ \hline \text{Range} = 25 \end{array}$$

section has scores closer to the mean? **In section Guyabano, the scores vary from 5 to 25, or are more scattered. But in section Chico, the scores are closer to the center of the data.*

d. Find the range, average deviation, variance and standard deviation.

Range: $R = H - L$

Guyabano: $R = 25 - 5 = 20$

Chico: $R = 25 - 5 = 20$

Average Deviation:

- Compute the mean score.

Guyabano: $\bar{x} = 15$ Chico: $\bar{x} = 15$

- Complete the table below.

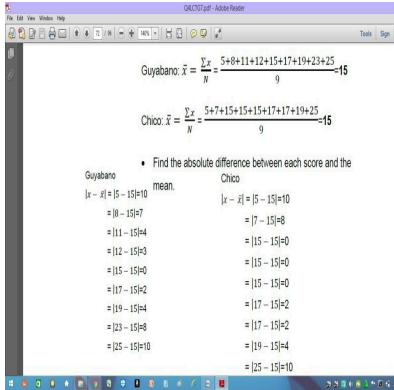
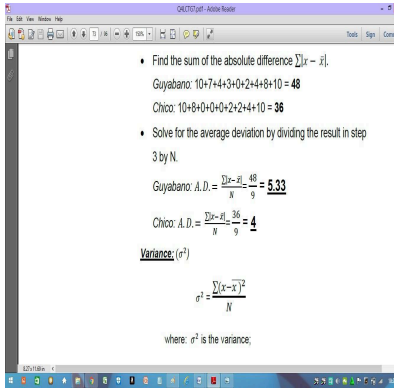
Guyabano			Chico		
x	$x - \bar{x}$	$(x - \bar{x})^2$	x	$x - \bar{x}$	$(x - \bar{x})^2$
5	-10	100	5	-10	100
8	-7	49	7	-8	64
11	-4	16	15	0	0
12	-3	9	15	0	0
15	0	0	15	0	0
17	2	4	17	2	4
19	4	16	17	2	4
23	8	64	19	4	16
25	10	100	25	10	100

$$\Sigma(x - \bar{x})^2 = 358$$

$$\Sigma(x - \bar{x})^2 = 288$$

deviation from the mean.

Find the mean.

			 	
D. Discussing new concepts and practicing new skills #1	Find the range. 1. Nine students are taking remedial classes. One of their quizzes scores are 12, 17, 13, 18, 18, 15, 14,	for the following problem: 1. The table shows the maximum speeds of eight roller coasters at an amusement park. Find the mean absolute deviation of	1. Find the range in the given set of data. a. 5, 7, 8, 6 b. 18, 19, 23, 20, 17 c. 77, 76, 74, 73, 72, 70, 75, 71 2. Find the range in the following data. a. 18, 20, 4, 16, 19. 18, 33	Find the variance and standard deviation. 1. a) 10, 16, 12, 15, 9, 16, 10, 17, 74, 72, 83, 96, 64, 79, 88, 69

17, 11. What is the range?

2. Find the range:

Days	Frequency
0-4	
5-9	
10-14	
15-19	
20-24	
25-29	
30-34	2
35-39	3

the set of data.
Describe what the mean absolute deviation represents.

Maximum Speeds of Roller Coasters (mph)			
58	88	40	60
72	66	80	48

2. The table shows the running time in minutes for two kinds of movies. Find the mean absolute deviation for each set of data. Round to the nearest hundredth. Then write a few sentences comparing their variation.

Running Time for Movies (min)											
Comedy						Drama					
90	95	88	100	98		115	120	150	135	144	

b. 1, 5, 8, 16, 25, 33, 51
c. 10, 85, 33, 36, 38, 37, 11, 39, 41
3. Find the average deviation of the following sets of data.
a. 5, 7, 6, 4, 8
b. 3, 4, 7, 2, 1, 8
c. 55, 63, 84, 57, 65, 77, 78

E. Discussing new concepts and practicing new skills #2	the range of an ungrouped data. 1. Distances run by 6 marathon runners; 10km, 15km, 12km, 14km, 8km, 16km 2. Quiz scores in Statistics; 93, 79, 83, 89, 90, 71, 85 in the table, find the range of a grouped data. 3. Below are the grades of the students of Grade 7 in Math <table><tr><td></td><td>Frequency</td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr><tr><td></td><td></td></tr></table>		Frequency																			Follow the steps to solve for the average deviation: 1. Find the mean absolute deviation for each set of data. Round to the nearest hundredth if necessary. Then describe what the mean absolute deviation represents. a. <table><tr><td colspan="5">Number of Daily Visitors to a Web Site</td></tr><tr><td>112</td><td>145</td><td>108</td><td>160</td><td>122</td></tr></table> Step 1: Find the mean: Step 2: Find the absolute value of the differences between each value in the data set and the mean Step 3: Find the average of the absolute values of the differences between each value in the data set and the mean. Zoo Admission (Php)	Number of Daily Visitors to a Web Site					112	145	108	160	122	1. What is range? How to compute the range? 2. What is average deviation? How to compute the average deviation.	1. What is variance? How to compute the variance? 2. What is standard deviation? How to compute the standard deviation? 3. What is the difference among range, variance and standard deviation?
	Frequency																																	
Number of Daily Visitors to a Web Site																																		
112	145	108	160	122																														

		<table><tr><td>200</td><td>300</td><td>270</td></tr><tr><td>250</td><td>380</td><td>340</td></tr></table> Step 1: Find the mean: Step 2: Find the absolute value of the differences between each value in the data set and the mean Find the average of the absolute values of the differences between each value in the data set and the mean.	200	300	270	250	380	340											
200	300	270																	
250	380	340																	
F. Developing mastery (Leads to Formative Assessment 3)	er the following: he range of a grouped and ungrouped data. Race time given in seconds; 7.3s, 8.4s, 8.0s, 7.5s, 9.4s, 8.7s, 9.1s 2. In a game, points were won and lost, represented by integers. What is the range of points given below.	er the following problem: 1. The table shows the maximum flying speeds of the ten fastest birds worldwide. Find the mean absolute deviation of the set of data. Round to the nearest hundredth. Describe what the mean absolute deviation represents. <table><tr><th colspan="5">Speeds of Top Ten Fastest Birds (mph)</th></tr><tr><td>88</td><td>77</td><td>65</td><td>70</td><td>65</td></tr><tr><td>72</td><td>95</td><td>80</td><td>106</td><td>68</td></tr></table>	Speeds of Top Ten Fastest Birds (mph)					88	77	65	70	65	72	95	80	106	68	Solve the <i>a</i>) range, <i>b</i>) average deviation of each set of ungrouped data. a. Science achievement test scores: 60, 75, 80, 85, 90, 95 b. Weights in kg of 10 students: 52, 55, 50, 55, 43, 45, 40, 48, 45, 47. c. Diameter (in cm) of balls: 12, 13, 15, 15, 15, 16, 18.	Solve the <i>a</i>) variance, <i>b</i>) standard a. Science achievement test score b. Weights in kg of 10 students: 52 c. Diameter (in cm) of balls: 12, 13
Speeds of Top Ten Fastest Birds (mph)																			
88	77	65	70	65															
72	95	80	106	68															

	3. Given the scores below, find the range <table><tr><th>Score</th><th>Frequency</th></tr><tr><td>60</td><td></td></tr><tr><td>65</td><td></td></tr><tr><td>70</td><td></td></tr><tr><td>75</td><td></td></tr><tr><td>80</td><td></td></tr><tr><td>85</td><td></td></tr></table>	Score	Frequency	60		65		70		75		80		85				
Score	Frequency																	
60																		
65																		
70																		
75																		
80																		
85																		
G. Finding practical applications of concepts and skills in daily living	Problem #1: Quenie took 7 Math test scores in one marking period. What is the range of her test scores? 89, 73, 84, 91, 87, 77, 94 Problem #2: Ms. Kaiser listed 9 integers on the blackboard. What is the range	Solve the mean deviation of the following: 1. Science achievement test scores: 60, 7, 80, 85, 90, 95 2. The weights in kilogram of 10 students: 52, 55, 50, 55, 43, 45, 40, 48, 45, 47. 3. The diameter (in cm) of balls: 12, 13, 15, 15, 15, 16, 18.	1. Given the following scores of students in a Trigonometry class, compute for the range and mean deviation. (See table at attached DLP)	Who is Smarter? Directions: Given the IQs of 5 members of two families has consistent IQ? Family A : 108, 112, 127, 118, 113 Family B : 120, 110, 118, 120, 110														

	of these integers? 14, -12, 7, 0, -5, -8, 17, -11, 19			
H. Making generalizations and abstractions about the lesson	The range of a set of data is the difference between the largest and the smallest values. It is the size of the smallest interval which contains all the data and provides an indication of statistical dispersion.	Average deviation gives a better approximation than the range. However, it does not lend itself readily to mathematical treatment for deeper analysis.	The mean, median and mode do not adequately give the description of the characteristics of a set of data. To find out how the values are scattered on either side of the central values, variation is needed. Measures of variability are the spread of values about the mean. Smaller dispersion of scores arising from the comparison often indicates more consistency and more reliability. These are the range, average deviation, variance and standard deviation. a. To find the range, get the difference between the largest value and smallest	The mean, median and mode do not adequately give the description of the characteristics of a set of data. To find out how the values are scattered on either side of the central values, variation is needed. Measures of variability are the spread of values about the mean. Smaller dispersion of scores arising from the comparison often indicates more consistency and more reliability. These are the range, average deviation, variance and standard deviation. a. To find the range, get the difference between the largest value and smallest b. To compute the average deviation, get the differences and divide it by N. Σ – c. The variance for ungrouped data is the average of the squared differences from the mean. d. The standard deviation is simply the square root of the variance.

			value. $R = \text{Highest value} - \text{Lowest value}$ b. To compute the average deviation, first, find the mean for all the cases, find the absolute difference between each score and the mean, and lastly, find the sum of the differences and divide it by N.	
I. Evaluating learning	Solve for the range. 1. A marathon race was completed by 5 participants. What is the range of times given in hours below? 2.7 hr, 8.3 hr, 3.5 hr, 5.1 hr, 4.9 hr 2. Find the range of these distances	the mean deviation of 2 the following: 1. Prices of books (in pesos): 85, 99, 99, 99, 105, 105, 120, 150, 200, 200. 2. Cholesterol level of middle-aged persons: 147, 154, 172, 195, 195, 209, 218, 241, 283, 336.	Find the range and average deviation of the following which shows the 6-month electric consumption. (See table at attached DLP)	Read each item carefully. Choose 1. Which measure of statistics describes the central tendency? a. Mean b. Median c. Mode d. standard deviation 2. If the range of a set of scores is 10, and the lowest score is 20, what is the highest score? a. 21 b. 24 c. 14 d. 7 For items 3- 5. The scores in an English test of eight students are: 78, 85, 92, 88, 75, 82, 90, 87. 3. The range of the scores in the given set is a. 9 b. 18 c. 24 d. 33 4. The computed variance in the set of scores is a. 48.8 b. 33.9 c. 55.5 d. 61.75

	run by 6 marathon runners: 10km, 15km, 12km, 14km, 8km, 16km			5. The standard deviation of the given data is: a. 18 b. 16 c. 8.4 d. 7.9
J. Additional activities for application or remediation	Follow-up: 1. What is average deviation? 2. How to compute for variance?	Follow-up: The table shows the height of waterslides at two different water parks. Find the mean absolute deviation for each set of data. Round to the nearest tenth.	A. Review 1. Ask your 10 classmates for their height measurements (in cm) and calculate the range and the average deviation.	1. Follow-up: Answer each of the following. The data are given in centimeters. Alden: 4, 5, 3, 2, 2, 5, 5, 3, 5, 0 Maine: 5, 4, 4, 3, 3, 1, 4, 0, 5, 5

		nearest hundredth. Then write a few sentences comparing their variation. <table><tr><th colspan="10">Height of Waterslides (ft)</th></tr><tr><th colspan="5">Splash Lagoon</th><th colspan="5">Wild Water Bay</th></tr><tr><td>75</td><td>95</td><td>80</td><td>110</td><td>88</td><td>120</td><td>108</td><td>94</td><td>135</td><td>126</td></tr></table>	Height of Waterslides (ft)										Splash Lagoon					Wild Water Bay					75	95	80	110	88	120	108	94	135	126	2. Make another set of 10 classmates and find their height. Solve for the range and average deviation. 3. Compare the two sets of classmates and interpret. B. Study 1. Variance 2. Standard Deviation	a. Compute the standard deviation b. Which student has the better gr c. Which student has the most cor 2. Study: Frequency Distribution T
Height of Waterslides (ft)																																		
Splash Lagoon					Wild Water Bay																													
75	95	80	110	88	120	108	94	135	126																									
V. REMARKS																																		
VI. REFLECTION																																		
1. No. of learners who earned 80% on the formative assessment																																		
2. No. of learners who require additional activities for remediation.																																		
3. Did the remedial lessons work? No. of learners who have caught up with the lesson.																																		

4. No. of learners who continue to require remediation				
5. Which of my teaching strategies worked well? Why did these work?				
6. What difficulties did I encounter which my principal or supervisor can help me solve?				
7. What innovation or localized materials did I use/discover which I wish to share with other teachers?				