Lesson Plan in Mathematics 6

December 11, 2017

1. **Objectives**

At the end of 50 minute discussion, the pupils should be able to:

1. Interpret algebraic expression and equation,
2. Cite the importance of algebraic expression and equation in real-life scenario, and;
3. Compute algebraic expression and equation through Guess and Test method.
4. **Subject Matter**
5. **Topic:** Solving Equation through Guess and Test Method.
6. **Instructional Materials:**

* **Visual Aids-** to be used in the discussion of the lesson
* **Flashcards-** to be used in the recap of the lesson

1. **Skills:** Solving equations and expression.
2. **Values Integration:** willingness to explore numbers, and integration of algebraic expression in real life.
3. **21st Century Skills:** Critical thinking and analytical skills
4. **Teaching Methodology:** Explicit Method
5. **Key Concept:** Solving Equation through Guess and Test method is a process which identifies the value of the variable through guessing the possible outcome that will make the equation true.
6. **Time allocation: 50 minutes**
7. **References: p. 238-239**
8. **Procedure**

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| **Teaching Hints** | **Teacher’s Activity** | **Pupils’ Activity** |
| **A.PRELIMINARY ACTIVITIES**  **Greetings**  **Opening Prayer**  **Securing the cleanliness**  **Checking of attendance**  **Checking of Assignment**  **Recall**        **Motivation**  **Development of the Lesson**  **Presentation of the Lesson**  **Presentation of the Lesson Objective.**  **Teaching/Modelling**  **Guided Practice**  **Group Practice**  **Generalization**  **Valuing** | Good Morning Class!  Ayessa, kindly lead the prayer.  Before you take your seats, arrange it properly and pick up the pieces of trash on the floor.  Group leaders kindly, check the attendance of your group mates.  Group representatives, are there any absentees among your group?  Do we have an assignment?  Let’s check.  Last meeting, you learned about the basic concept of algebraic expression and equation, specifically translating it from word sentence to algebraic equation and vice versa.  Let’s see if you can really still remember. How do you translate this, 20+n?  Very good!  What about this one?  The product of twenty and four?  Very nice!  (the teacher will ask 2 more questions)  In this equation, what do you think is the value of n?  n+8=10  That’s right, why did you answer 2?  Very good!  Next, 2n+1=3 what is the value of n?  How did you arrive at that answer?  Very Good explanation!  Basically, we can identify the value of the variable in an equation through Guessing, right?  So, today our lesson will be about Solving Equation through Guess and Test Method.  Before we proceed, let me present to you our objectives for today.  (the teacher will post the objectives)  When you guess, what do you usually do?  Yes, that is right.  In solving equation we can also use that.  In what way we can use that?  Yes, very nice.  Let us have an equation.  N+4=7   |  |  |  |  | | --- | --- | --- | --- | | N+4 | 1+4 | 2+4 | 3+4 | | N+4=7 | 5≠7 | 6≠7 | 7=7 |   In this table, what did you observed?  Very good!  In Guess and Test method the variable in the equation is substituted by the possible numbers that could solve the equation.  Let’s have another example.  2n+3=13   |  |  |  |  | | --- | --- | --- | --- | | 2n+3 | 2x2+3 | ? | ? | | 2n+3=13 | 7≠17 |  |  |   Who can complete the table and arrive at the correct answer?  For those who are not called try to answer it in your notes.  Let’s have a group activity.  I will give an equation and you will use the Guess and Test Method. As a group you will work together and afterwards one of you will present it. The activity will only last for 7 minutes.  3n-5=4, make at least 3 guesses until you arrive at the correct answer. Start!  What did you learned about the Guess and test Method?  Very good!  Do you have your own equations in life?  I have my own equation, for example friends+family+God=  Happiness.  Can anyone share their own equation in life?  If one of it is missing, are you willing to solve it?  That’s the spirit.  Let’s have a quiz. | Good Morning Teacher Ed!  (pupil lead the prayer)  “Our father”  (the pupils will do what the teacher says)  (the leader will check the attendance of his group mates.)  None, teacher.  Yes, teacher.  A number is added to twenty.  20x4  The value of n is 2.  Because, 2 plus 8 is equal to 10.  The value of n is 1  Because when 2 is multiplied by 1 added to 1 is equal to 3.  Yes, Sir!  (the pupils will read the objectives)  We assume of the possibilities  We can use a table to make a patter n guess.  The table presents the possible guess that will solve the equation.  (Pupils will raise their hand)  (the pupils will answer the table)  (The pupils will do the activity)  In guess and test method, the variable in the equation is substituted of the possible numbers that could solve the equation.  Yes, we have.  (the pupils will share their equation)  Yes, sir! |

1. **Evaluation.** Solve the following equations through Guess and Test Method. **(2pts each)**
2. **N+2=5**
3. **4+2=n**
4. **3n-3=6**
5. **4N-4=0**
6. **3n+4×5=60**
7. **Assignment.** Solve the following equation through Guess and Test Method.
8. **4n+6=2**
9. **3+1=n**
10. **6-2n=0**
11. **n+2=0**
12. **10n+1=21**