

December 2, 2015

Learning Centers on Pattern Bugs

Kindergarten

**Subjects:** Language Arts and Science

**Lesson Titles:** Whole group read aloud, Writing a book, Letter blocks, Jars, Small group Pattern bugs.

Through five activities that I intend on incorporating in my classroom, I will encourage the use of language. The read a loud will model fluent and expressive reading, which will facilitate comprehension. This will encourage receptive language and also allows interaction with the book. Students contributing to the classroom writing gives students ownership and also allows the student to understand they are capable of manipulating a pattern between math and language. The rhyming will incorporate that phonemic awareness. The letter block activity allows students to self explore phonemic awareness. It allows them to see the patterns in letters and how that transcends into language. The jar project allows students to review non- fiction writing (informational text), apply the new knowledge and reiterate on what they learned. The pattern bugs center allows for students to apply informational text to nature and gives them the opportunity to use receptive language by listening to the reader and expressive language when sharing with peers through their sentences why they chose to complete their assignment in the manner that they did.

**1. Whole Group Activity:** Read aloud

a. Methods/activities: Read the book through, leaving time for children to guess how each pattern will end. Read the book through a second time, this time I will say the pattern type instead of the word. Example- instead of saying flutter float flutter float, I will say ABAB.

Content standards:

- CCSS.ELA-LITERACY.L.K.5.C  
Identify real-life connections between words and their use (e.g., note places at school that are colorful).
- CCSS.ELA-LITERACY.L.K.6  
Use words and phrases acquired through conversations, reading and being read to, and responding to texts.
- CCSS.MATH.CONTENT.K.CC.B.4.A  
When counting objects, say the number names in the standard order, pairing each object with one and only one number name and each number name with one and only one object.

**2. Writing Center Activity: book**

a. Methods/activities: The students will write an additional page for Pattern Bugs. I will laminate their pages and make it into a class book. They will need to write at least two sentences and one of the sentences that rhyme and an additional sentence that will need to have the word pattern. They will need to make their bugs into a math problem, which will be located under their sentence. The math problem will need to be made from the amount of bugs that are in their problem. They will also need to include an illustration. An example will be on display.

Content standards:

- CCSS.ELA-LITERACY.L.K.1.A  
Print many upper- and lowercase letters.
- CCSS.ELA-LITERACY.L.K.1.F  
Produce and expand complete sentences in shared language activities.
- CCSS.MATH.CONTENT.K.OA.A.1  
Represent addition and subtraction with objects, fingers, mental images, drawings<sup>1</sup>, sounds (e.g., claps), acting out situations, verbal explanations, expressions, or equations.

- **CCSS.MATH.CONTENT.K.OA.A.2**  
Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.
- **CCSS.MATH.CONTENT.K.OA.A.3**  
Decompose numbers less than or equal to 10 into pairs in more than one way, e.g., by using objects or drawings, and record each decomposition by a drawing or equation (e.g.,  $5 = 2 + 3$  and  $5 = 4 + 1$ ).

### 3. **Concept Center Activity: Letter Blocks**

- a. Methods/activities: Students will be given a bag of letters. The goal is to dump out the bag and have the student make as many patterns as they can with the letters. They will record their patterns on a piece of colored paper and the paper will be hung up in the classroom.

Content standards:

- **CSS.ELA-LITERACY.L.K.1.F**  
Produce and expand complete sentences in shared language activities.
- **CCSS.ELA-LITERACY.L.K.2**  
Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.
- **CCSS.MATH.CONTENT.K.MD.A.1**  
Describe measurable attributes of objects, such as length or weight. Describe several measurable attributes of a single object.

### 4. **Take Home Activity: Jars**

- a. Methods/activities: Students will go on a scavenger hunt with their parents. Students will read the paragraph about insects, which will also be given to take home to read with parents. They will cut out pictures from magazines of animals. The students will divide the animals into each jar- insect and non- insects. On the back of the jar the students will write an explanation of the characteristics of insects and characteristics of the animals that are non-insects.

Content standards:

- **CCSS.ELA-LITERACY.L.K.1.F**  
Produce and expand complete sentences in shared language activities.

- CCSS.ELA-LITERACY.L.K.5.A  
Sort common objects into categories (e.g., shapes, foods) to gain a sense of the concepts the categories represent.
- K.L.1.2
- Compare characteristics of animals that make them alike and different from other animals and nonliving things.

##### 5. **Small Group Activity: Pattern bugs**

Methods/activities: After explaining to the students that there are patterns in nature. They will cut out only the bugs and glue them in the jar. They will then use colored pencils to make patterns on the bugs. Under their pattern they will write a few sentences about their pattern. They will need to explain the pattern and why they chose that. They will also need to mention a pattern in nature. I will have a few photograph examples on the table.

Content standards:

- CCSS.ELA-LITERACY.L.K.1.F  
Produce and expand complete sentences in shared language activities.
- K.L.1.1  
Compare characteristics of animals