

## Planning an Effective Mathematics Lesson

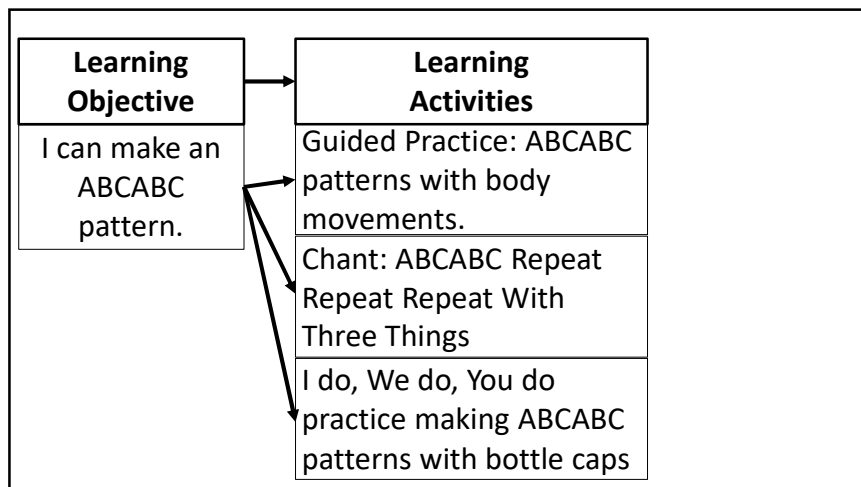
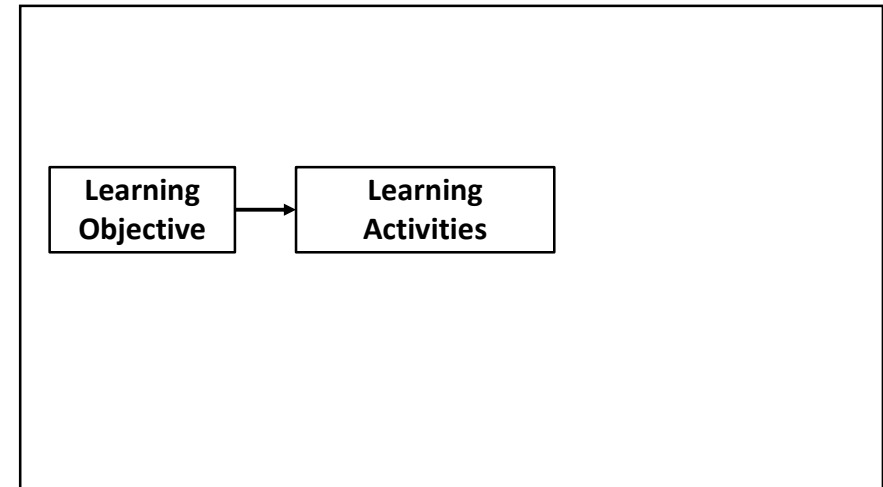
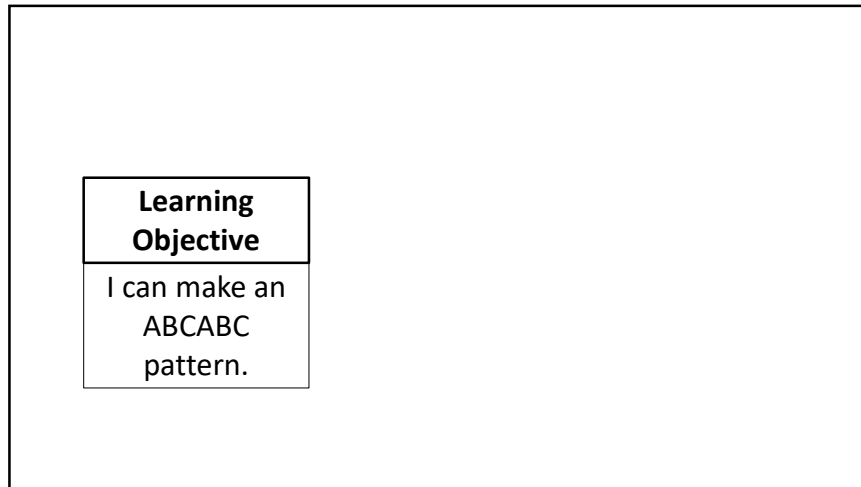
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- “It is the teacher’s classroom plans and organization, sensitivity and responsiveness to all the children, and moment-to-moment interactions with them that have the greatest impact on children’s development and learning” (National Association for the Education of Young Children, 2009, p. 8)

### Steps in Planning for Maths

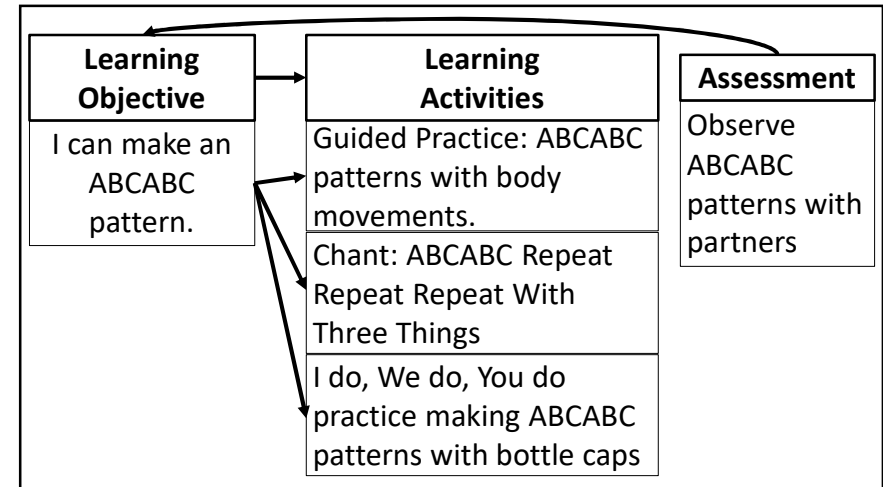
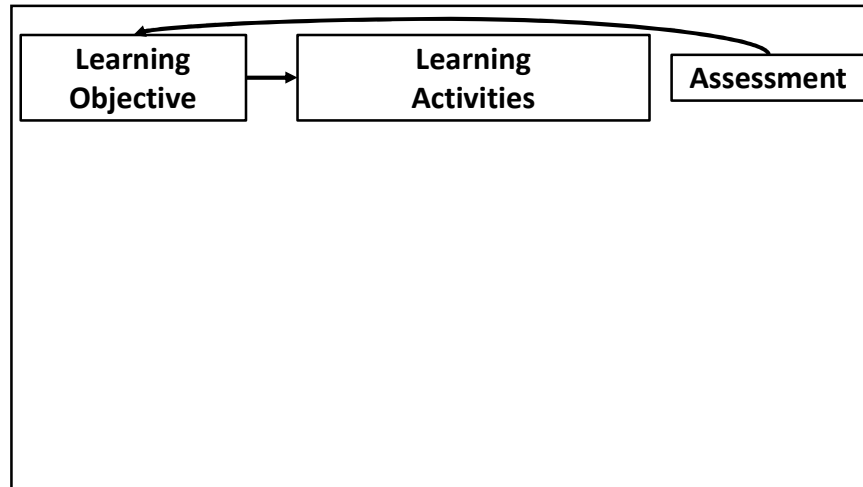
1. Set the learning objective
2. Prepare learning activities
3. Plan for assessment
4. Plan for mathematizing

**Learning  
Objective**



### Favourite Websites for Learning Activities

- <https://www.prekinders.com/>
- <https://www.pre-kpages.com/>
- <https://funlearningforkids.com/>
- <https://www.wareteachers.com/>
- <https://www.teacherspayteachers.com/>
  - Click on "Free" to limit search to free activities



### Lesson Plan

- **Name of Activity:** ABCABC Pattern
- **Level of Pupils:** Pre-Primary
- **Duration of Lesson:** 30 minutes
- **Learning Materials**
  - Flowers, leaves, and sticks
  - Bottle caps (loose parts)
- **Learning Objective:** I can make an ABCABC pattern

### Lesson Plan

- **Step-by-Step Procedures**
- **Step 1. Introduction by Guided Practice of ABCABC Pattern with body movements. Patterns will be 1) clap, snap, pat; 2) jump, wave, tap head**
  - Ok children, now repeat after me. (Clap, snap, pat, clap, snap, pat.)
  - Let's do another pattern. (Jump, wave, tap head, jump, wave, tap head.)
- **Step 2. Review yesterday's lesson of ABAB patterns.**
  - What type of pattern did we do yesterday?
  - Who can demonstrate an ABAB pattern for me with actions?
- **Step 3. Present I Can statement.**
  - Today, we are going to learn an ABCABC pattern. Our I Can statement is, "I can make an ABCABC pattern."

## Lesson Plan

- **Step 4. Chant Explanation of ABCABC pattern.**
  - ABCABC
  - Repeat, Repeat, Repeat
  - With Three Things
  - An ABCABC pattern has three objects, like this. What are these objects? (Present flower, leaf, and stick.) Now, repeat the three objects in a pattern. (Demonstrate ABCABC pattern.)

## Lesson Plan

- **Step 5. I do with Think Aloud. Use blue, green, red bottle caps to demonstrate an ABCABC pattern while Thinking Aloud.**
  - Here is an ABCABC pattern with bottle caps: blue, red, green, blue, red, green. First, I am going to start by carefully observing the pattern. I see three colours: blue, red, and green. Then the colours repeat in the same way: blue, red, green. So now I will extend the pattern by adding blue, red, green. Let's check to make sure we have the pattern right by identifying the colours: blue, red, green, blue, red, green, blue, red, green. ABCABCABC. Well done!

## Lesson Plan

- **Step 6. We Do in Small Groups. Children will be in small groups of 4 in their tables. Each group will receive bottle caps. I will present the start of an ABCABC pattern and children will take turns in their small groups extending the pattern. Patterns will be 1) green, black, red; 2) white, blue, red; 3) black, white, green; 4) red, white, black**
  - Now, I am going to give each of your tables some bottle caps. I want you to pick one person who goes first. Who is going to go first? Raise your hand? Ok, start off with this pattern: green, black, red, green, black, red. Everyone look at the pattern on your table. Does it follow the green, black, red pattern? Ok, now your first person, look at the pattern and extend it. What 3 bottle caps should go next? Once they have finished, everyone else at the table should check their work. Is everyone correct? Now pick the second person. Who is going now? Raise your hand. (Repeat with the following patterns)

## Lesson Plan

- **Step 7. You Do Making and Extending ABCABC Pattern in Pairs. Children will be arranged in pairs. They will take turns with one partner making an ABCABC pattern with 6 bottle caps and the other partner extending by adding 3 more bottle caps.**
  - Now everyone find a partner. Stand back-to-back with your partner. Pick one partner who will go first. You should start the ABCABC pattern with bottle caps. Make sure there are 6 bottle caps in your start. Then the other partner will extend your pattern by adding 3 more bottle caps. When you have finished, then you can switch roles.

## Lesson Plan

- **Step 8. Summary.**

- With an ABCABC pattern, we repeat three objects. Here is an ABCABC pattern: Flower, Leaf, Stick, Flower, Leaf, Stick.

## Lesson Plan

- **Assessment.** Observe children's patterns as they are working in pairs. Provide feedback and correction where needed.

- **Mathematize.**

- In science, they are studying seeds. I will challenge pupils to make an ABCABC pattern from seeds.
- During snack time, I will challenge pupils to make an ABCABC pattern out of their snack food.
- When they are queueing to leave, we will make an ABCABC pattern in the queue by alternating girl, boy, teacher, girl, boy, teacher.