



**SYLLLABUS**

**YEAR-1**

**PLAY GROUP**

# STEM Education Curriculum Overview for TESOL Elementary School

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### Year 01: Early Childhood Level Students (Age 3-4)

**Introduction:** In Year 01, students are introduced to the world of learning through fun, play, and exploration. At TESOL Elementary School, we follow the Montessori method to nurture the child's curiosity and encourage independent learning. This year focuses on simpler concepts that form the building blocks for future STEM learning, with plenty of hands-on activities, sensory experiences, and basic problem-solving tasks. Parents play an important role in reinforcing learning at home and supporting their child's development.

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## Foundation Science

### Theme: Discovering the World Around Us

- **Objectives:**
    1. Recognize basic colors, shapes, and textures.
    2. Explore simple concepts like weather, seasons, and day/night.
    3. Introduce the idea of living and non-living things.
    4. Begin to observe plants, animals, and the environment.
    5. Encourage asking simple questions about the world.
  - **Activities:**
    1. **Color Hunt:** Look for objects around the classroom matching specific colors (red, blue, green).
    2. **Weather Chart:** Create a daily weather chart (sunny, rainy, cloudy).
    3. **Living or Non-Living:** Sort pictures of living (plants, animals) and non-living things (toys, rocks).
    4. **Leaf Collection:** Collect leaves of different shapes and sizes to explore plant life.
    5. **Seasonal Discovery:** Discuss how the weather changes with each season using visuals.
  - **Evaluation:**
    - Teacher observation during activities.
    - Simple matching and sorting tasks.
    - Parent feedback on exploring nature at home.
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## Foundation Phonics for Little Children

### Theme: Listening to Sounds

- **Objectives:**

1. Recognize common sounds in the environment.
  2. Begin identifying starting sounds of familiar words (e.g., ball, car).
  3. Learn the alphabet song.
  4. Engage in fun sound games.
  5. Build awareness of letters in everyday objects.
- **Activities:**
    1. **Sound Guessing Game:** Play sounds (e.g., dog barking, bell ringing) and ask children to guess the source.
    2. **Alphabet Song:** Sing the alphabet song together.
    3. **Object Sound Match:** Show a picture of an object and ask students to identify the sound it starts with.
    4. **Trace and Color:** Trace the letters A, B, C and color them in.
    5. **Sound Walk:** Go on a walk around the school and listen for different sounds (birds, cars, footsteps).
  - **Evaluation:**
    - Oral sound recognition during activities.
    - Simple tracing assessments.
    - Teacher observation during sound identification tasks.
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## Foundation Technology, IT, and Vocational Teaching

### Theme: Exploring Everyday Technology

- **Objectives:**
    1. Familiarize with basic technology (phones, lights, TV).
    2. Learn how to use simple devices safely.
    3. Recognize how technology helps us (e.g., in cooking, transportation).
    4. Begin to understand how things work (buttons, switches).
    5. Foster curiosity about tools and gadgets.
  - **Activities:**
    1. **Button Exploration:** Explore how pressing buttons on a toy car or remote control works.
    2. **Flashlight Fun:** Turn flashlights on and off to understand how switches work.
    3. **Kitchen Tools:** Show how technology helps at home (e.g., blender, microwave) with parent participation.
    4. **Technology Around Us:** Identify different types of technology in pictures (e.g., computer, phone, TV).
    5. **Parent-Assisted Tool Project:** Help build a simple paper fan or windmill.
  - **Evaluation:**
    - Teacher observation during hands-on activities.
    - Parent feedback on technology exploration at home.
    - Participation in discussions about everyday technology.
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## Foundation Engineering

## Theme: Building with Blocks and Shapes

- **Objectives:**
    1. Learn how to build simple structures using blocks.
    2. Explore shapes and how they fit together.
    3. Develop early problem-solving skills by stacking and balancing.
    4. Foster creativity by designing basic structures.
    5. Work in small groups to build together.
  - **Activities:**
    1. **Shape Stacking:** Use square and triangle blocks to build simple towers.
    2. **Shape Puzzles:** Complete puzzles by fitting different shapes together.
    3. **House Building:** Build a small house with toy blocks and discuss how it stands.
    4. **Parent-Assisted Construction:** Build a paper house or tower at home with parental help.
    5. **Playground Design:** Use blocks to create a simple model of a playground.
  - **Evaluation:**
    - Teacher observation of building activities.
    - Parent feedback on home construction projects.
    - Self-reflection: ask students to draw and label their favorite structure.
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## Foundation Mathematics

### Theme: Counting and Recognizing Shapes

- **Objectives:**
    1. Develop basic counting skills (1-10).
    2. Recognize simple shapes (circle, square, triangle).
    3. Learn about size (big, small) and quantity (more, less).
    4. Understand basic patterns (AB, ABC).
    5. Begin to solve simple puzzles and matching tasks.
  - **Activities:**
    1. **Count the Toys:** Count blocks or toys during playtime (up to 10).
    2. **Shape Matching:** Match shapes to corresponding outlines.
    3. **Big or Small:** Sort objects by size (big teddy, small teddy).
    4. **Pattern Blocks:** Create simple patterns using colored blocks.
    5. **Number Puzzles:** Complete number puzzles (1-5).
  - **Evaluation:**
    - Participation in counting and sorting activities.
    - Simple shape matching assessments.
    - Parent feedback on counting activities at home.
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## Foundation Ethics & Religion

### Theme: Being Kind and Sharing

- **Objectives:**
    1. Learn the importance of kindness and sharing.
    2. Begin to understand right and wrong through stories.
    3. Learn simple prayers and rituals.
    4. Practice good behavior in group activities.
    5. Foster respect for others and their feelings.
  - **Activities:**
    1. **Story Time:** Listen to short moral stories about kindness and sharing.
    2. **Role Play Sharing:** Act out a scenario where students share toys or snacks.
    3. **Simple Prayer:** Learn and recite a short prayer.
    4. **Helping Hands:** Work together in groups to clean up the classroom.
    5. **Parent-Led Discussion:** Parents discuss the importance of kindness with their children at home.
  - **Evaluation:**
    - Teacher observation of behavior during group activities.
    - Parent feedback on moral behavior at home.
    - Simple oral reflection about how they helped a friend.
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## Foreign Languages (French and Korean)

### Theme: Learning Basic Words

- **Objectives:**
  1. Learn basic words in French and Korean.
  2. Practice simple greetings and phrases.
  3. Enjoy songs and rhymes in both languages.
  4. Recognize words and objects in the new languages.
  5. Build interest in learning about different cultures.
- **Activities:**
  1. **Greetings Practice:** Learn basic greetings (Bonjour, Annyeong).
  2. **Object Word Match:** Match pictures of objects with their names in French and Korean.
  3. **Simple Song Time:** Sing short songs in both languages.
  4. **Cultural Exploration:** Show pictures of cultural elements from France and Korea.
  5. **Parent-Assisted Practice:** Practice new words at home with the help of parents.
- **Evaluation:**
  - Teacher observation during language activities.
  - Parent feedback on language practice at home.
  - Oral assessments during greetings and word-matching tasks.

**Conclusion:** In Year 01, students embark on an exciting journey of discovery, focusing on building confidence, curiosity, and foundational skills in STEM education. The curriculum is

designed to be simple yet engaging, ensuring that young learners develop a love for learning through playful and hands-on experiences. With the support of parents and teachers, students will explore the world around them and begin their lifelong journey of learning and growth.