

**Discipline:** Mathematics

**Standard Category:** Measurement and Estimation

**Lesson Focus:** Perimeter

<b>PA Standard(s):</b>	<b>Related TESOL Standard(s):</b>
2.3.8A: Develop formulas and procedures for determining measurements (e.g., area, volume, distance).	Goal 2: To use English to achieve academically in all content areas. Standard 1: Students will use English to interact in the classroom. Standard 2: Students will use English to obtain, process, construct, and provide subject matter information in spoken and written form.

**Key Objectives in Accordance with TESOL Level:**

<b>Pre-Conversational/ Beginning</b>	<b>Intermediate</b>	<b>Advanced</b>
Students will be able to: <ul style="list-style-type: none"><li>• Hold measuring tape and record measurement while working with a partner and measure using whole numbers.</li></ul>	Students will be able to: <ul style="list-style-type: none"><li>• Demonstrate beginning level objectives and state and record measurements with or without a partner.</li></ul>	Students will be able to: <ul style="list-style-type: none"><li>• Demonstrate beginning and intermediate objectives, measure and record independently, and measure using fractional parts of a measuring tape.</li></ul>

**Materials:**

1. Tape measures or yard sticks
2. Paper
3. Pencil

**Procedures:** (ELL suggestions are written in italics)

1. The teacher introduces perimeter to the whole group by displaying different shapes such as squares, rectangles, triangles, or any irregular polygon.
2. The teacher calls attention to the lengths of the sides of these shapes and explains the sum of all the sides is the perimeter.
3. The teacher guides students through practice of finding the perimeter of their desktops.
4. The students are given a set list of 5 items in the classroom which they must find the perimeter (inches or centimeters).
5. In groups of 3, the students share their results and remeasure if necessary. *Pair ELL with English speaker.*
6. A more active way to find perimeter is by having students walk the

**Suggested**

**Level:**

Intermediate

**Lesson Focus:**

Perimeter

**Teaching**

**Strategies:**

Whole group instruction

Peer work

Independent work

**Assessment**

**Strategies:**

Teacher observation

Teacher made assessment (quiz)

perimeter of the classroom, hallway, cafeteria, gym, etc.

**Assessment:**

Students are given another set of 5 pre-selected items to measure and find the perimeter.

**Beginner**

The student may re-measure the same items as used in modeling lesson.

**Intermediate**

The student orally explains the process of finding perimeter and demonstrates the process to the teacher.

**Advanced**

The student works independently to measure the items and is able to use fractional parts of the measuring tape.

**Notes: Terms to Know:** perimeter

