TEKS Cluster: Geometry and Measurement
TEKS Subcluster: Circles
Student Expectations: 7.5(B), 7.8(C), 7.9(B)
Activities Summary: Students are introduced to the constant pi. This is the students' first introduction to naturally occurring numbers that a describe consistent relationship between quantities – in this case the ratio between the circle of every circle, not matter how large, and the diameter of the circle.

| **Activity Title**<br>Student Expectations | **Activity Topic** | **Type** | | | **Delivery** | | |
|---|---|---|---|---|---|---|---|
| | | new learning | intervention | practice | teacher-facilitated | small groups | stations |
| **Circumference and Area of Circles** | | | | | | | |
| **The Constant Pi**<br>7.5(B) | **Circumference/Diameter = Pi**<br>Students explore circles of all sizes to discover that the relationship between a circle's circumference and diameter is always a little more than 3 and write ratios that have an approximate value of pi. | ✓ | | | ✓ | | |
| **Area of a Circle**<br>7.8(C) | **Model and Understand the Formula for Area of a Circle**<br>Students make models to understand formula for area of a circle and calculate area. | ✓ | ✓ | | ✓ | | |
| **Circumference of a Circle**<br>7.8(C) | **Model the Circumference of a Circle**<br>Students make models to understand formula for circumference of a circle and calculate circumference. | ✓ | ✓ | | ✓ | | |
| **Circle Practice**<br>7.9(B) | **Circumference and Area of a Circle**<br>Students write formulas for area or circumference and solve. Scaffolding includes a step-by-step process for using formulas. | | ✓ | ✓ | | ✓ | |
| **Circle Fun**<br>7.9(B) | **Circumference and Area of a Circle**<br>In this board game, students find circumference and area of circles. Scaffolding including problems that rank from the simplest (find area or circumference given radius or diameter) to the most complicated (find the area given the circumference). | | ✓ | ✓ | | ✓ | |