Grade: 3 Subject: Mathematics	Unit 10: Time
Big Idea/Rationale	• Extends the skills in telling time that students developed in the previous grade level. This unit begins with students telling time to the hour, half-hour, quarter-hour, five minutes, and one minute. The features of calendars are reviewed and students find elapsed time in days, weeks, and months. They also find elapsed time on clocks in hours and minutes and solve real-world problems involving elapsed time. The final lesson in this unit provides students with practice multiplying and dividing by 6, by relating a minute to a 6˚ rotation of the minute hand.
Enduring Understanding (Mastery Objective)	Students will understand that: • Time can be expressed using different units that are related to each other. • The minute hand takes 5 minutes to move from one number to the next on a typical clock. • The minute hand takes 1 minute to move from one mark to the next on a typical clock face. • Elapsed time can be found by finding the total amount of time that passes between a start time and an ending time. • A clock's quarter hours are directly related to the degrees of a circle and can be found by calculating the rotation of the minute and hour hands.
Essential Questions (Instructional Objective)	• How do you tell time to the nearest quarter hour, half hour and whole hour? • How do you tell time to the nearest minute? • How can you find elapsed time? • How are degrees related to the angles of a clock?
Content (Subject Matter)	• Tell time to the hour, half-hour, and quarter-hour. • Tell time to 5 minutes and to 1 minute. • State times using the words, before and after with the appropriate hour. • Use ordinal numbers. • Determine elapsed time in days, weeks, months, hours, and minutes. • Use elapsed time to find start and end dates and times. • Relate elapsed time on a clock to angles of rotation. • Apply multiples of 6.
Skills/ Benchmarks (CCSS Standards)	• **3.MD.A.1:** Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram • **3.MD.C.8:** Solve real world and mathematical problems involving

	perimeters of polygons, including finding the perimeter given the side lengths, finding an unknown side length and exhibiting rectangles with the same perimeter and different area or with same area and different perimeter.
Materials and Resources	• Math Expressions, Student Journals, Manipulatives, Math themed literature, BrainPop, IXL Mathematics