**Study Outline: 10 Coordinate plane**

I. Formulas

A. Midpoint

1. Calculation

2. Application

B. Distance

1. Calculation

2. Application

C. Slope

1. Calculation

2. Application

II. Geometric Figures

A. Parallelograms

1. Parallelogram

a. Side lengths

b. Angles

2. Rectangle

a. Side lengths

b. Angles

3. Rhombus

a. Side lengths

b. Angles

4. Square

a. Side lengths

b. Angles

B. Circles

1. Center

2. Radius

III. Transformations

A. Translation

1. Horizontal

2. Vertical

B. Reflection

1. across x-axis

2. across y-axis

C. Rotation

1. 90°

2. 180°

3. 270°

D. Dilation

1. Scale Factor

1. larger

2. smaller