Unit 3 - Parallel Lines and Transversals:

Day 1:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

   o I can give a precise definition of:

   - Vertical Angle
   - Linear Pair
   - Supplementary Angles
   - Complementary Angles
   - Parallel Lines
   - Transversal

   - Alternate Interior Angles
   - Alternate Exterior Angles
   - Consecutive Interior Angles
   - Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

   o I can prove vertical angles congruent.

   o I can prove when a transversal intersects parallel lines:

   - Alternate Interior Angles are Congruent.
   - Alternate Exterior Angles are Congruent.
   - Corresponding Angles are Congruent.
   - Consecutive (Same Side) Interior Angles are Supplementary.

3. I can prove theorems about Parallelograms. I know I can because:

   o I can classify parallelograms.
   o I can prove opposite sides of a parallelogram are parallel and congruent.
   o I can prove opposite angles of a parallelogram are congruent.
   o I can prove consecutive angles of a parallelogram are supplementary.
   o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

   o I can find the measure of segments in a triangle using the midsegment theorem.
   o I can find the measure of segments in a triangle using the medians.

Standard: MGSE9-12.G.CO.1, 9, 10, 11

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Special Types of Angles Graphic Organizer (Direct)

Angle Pair Relationships PowerPoint (Direct/Guided)

Special Angle Pairs Notes (Direct/Guided)

Special Angle Pairs Practice (Guided/Independent)

iXL → C: 4 (Independent)

2.2 Skills Practice (Angle Pairs) (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 2:

Learning Targets and Success Criteria:

1.   I can define geometric terms. I know I can because:

    o   I can give a precise definition of:

● Vertical Angle	● Alternate Interior Angles
● Linear Pair	● Alternate Exterior Angles
● Supplementary Angles	● Consecutive Interior Angles
● Complementary Angles	● Corresponding Angles
● Parallel Lines	
● Transversal	

2.   I can prove theorems about lines and angles. I know I can because:

    o   I can prove vertical angles congruent.

    o   I can prove when a transversal intersects parallel lines:

    ● Alternate Interior Angles are Congruent.
    ● Alternate Exterior Angles are Congruent.
    ● Corresponding Angles are Congruent.
    ● Consecutive (Same Side) Interior Angles are Supplementary.

3.   I can prove theorems about Parallelograms. I know I can because:

    o   I can classify parallelograms.
    o   I can prove opposite sides of a parallelogram are parallel and congruent.
    o   I can prove opposite angles of a parallelogram are congruent.
    o   I can prove consecutive angles of a parallelogram are supplementary.
    o   I can prove diagonals of a parallelogram bisect each other.

4.   I can prove theorems about triangles. know I can because:

    o   I can find the measure of segments in a triangle using the midsegment theorem.
    o   I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Special Angles Practice Test (Direct/Guided)

Special Angles Test (Independent)

Activity 14 (Types of Angles with Parallel Lines and Transversals) (Guided)

3.2 Warm-up Parallel Lines (Direct)

Parallel Lines and Transversals PowerPoint (Direct/Guided)

3.2 Parallel lines Angle Relationships (Guided/Independent)

3-1 Parallel Lines Angle Relationships Reading Strategies (Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 3:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

    o I can give a precise definition of:

      - Vertical Angle
      - Linear Pair
      - Supplementary Angles
      - Complementary Angles
      - Parallel Lines
      - Transversal
      - Alternate Interior Angles
      - Alternate Exterior Angles
      - Consecutive Interior Angles
      - Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

      o I can prove vertical angles congruent.

      o I can prove when a transversal intersects parallel lines:

      - Alternate Interior Angles are Congruent.
      - Alternate Exterior Angles are Congruent.
      - Corresponding Angles are Congruent.
      - Consecutive (Same Side) Interior Angles are Supplementary.

3. I can prove theorems about Parallelograms. I know I can because:

      o I can classify parallelograms.
      o I can prove opposite sides of a parallelogram are parallel and congruent.
      o I can prove opposite angles of a parallelogram are congruent.
      o I can prove consecutive angles of a parallelogram are supplementary.
      o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

      o I can find the measure of segments in a triangle using the midsegment theorem.
      o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Parallel Lines and Transversals Notes (Direct/Guided)

Parallel Lines and Transversals Practice (Guided/Independent)

iXLs D:3 & 4

Summarizers: Discuss and correct questions they thought were difficult.

Homework: Parallel Lines and Transversals Practice 2

Day 4:

Learning Targets and Success Criteria:

1.   I can define geometric terms. I know I can because:

   o   I can give a precise definition of:

● Vertical Angle	● Alternate Interior Angles
● Linear Pair	● Alternate Exterior Angles
● Supplementary Angles	● Consecutive Interior Angles
● Complementary Angles	● Corresponding Angles
● Parallel Lines	
● Transversal	

2.   I can prove theorems about lines and angles. I know I can because:

   o   I can prove vertical angles congruent.

   o   I can prove when a transversal intersects parallel lines:

   - Alternate Interior Angles are Congruent.
   - Alternate Exterior Angles are Congruent.
   - Corresponding Angles are Congruent.
   - Consecutive (Same Side) Interior Angles are Supplementary.

3.   I can prove theorems about Parallelograms. I know I can because:

   o   I can classify parallelograms.
   o   I can prove opposite sides of a parallelogram are parallel and congruent.
   o   I can prove opposite angles of a parallelogram are congruent.
   o   I can prove consecutive angles of a parallelogram are supplementary.
   o   I can prove diagonals of a parallelogram bisect each other.

4.   I can prove theorems about triangles. know I can because:

   o   I can find the measure of segments in a triangle using the midsegment theorem.
   o   I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Quadrilaterals Sorting Activity (Guided)

Parallelograms Foldable (Guided/Independent)

Parallelograms Venn Diagram Graphic Organinzer (Guided/Independent)

Properties of Parallelograms PowerPoint (Guided)

Finish iXLs

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 5:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

    o I can give a precise definition of:

        - Vertical Angle
        - Linear Pair
        - Supplementary Angles
        - Complementary Angles
        - Parallel Lines
        - Transversal

        - Alternate Interior Angles
        - Alternate Exterior Angles
        - Consecutive Interior Angles
        - Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

    o I can prove vertical angles congruent.

    o I can prove when a transversal intersects parallel lines:

        - Alternate Interior Angles are Congruent.
        - Alternate Exterior Angles are Congruent.
        - Corresponding Angles are Congruent.
        - Consecutive (Same Side) Interior Angles are Supplementary.

3.   I can prove theorems about Parallelograms. I know I can because:

    o I can classify parallelograms.
    o I can prove opposite sides of a parallelogram are parallel and congruent.
    o I can prove opposite angles of a parallelogram are congruent.
    o I can prove consecutive angles of a parallelogram are supplementary.
    o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

> o I can find the measure of segments in a triangle using the midsegment theorem.
> o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Parallelograms Notes 1 (Guided)

Parallelograms Practice 1 (Guided/Independent)

Parallelograms Notes 2 (Guided)

Parallelograms Practice 2 (Guided/Independent)

3.3A Parallel Lines WS (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 6:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

> o I can give a precise definition of:

- Vertical Angle
- Linear Pair
- Supplementary Angles
- Complementary Angles
- Parallel Lines
- Transversal
- Alternate Interior Angles
- Alternate Exterior Angles
- Consecutive Interior Angles
- Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

> o I can prove vertical angles congruent.
>
> o I can prove when a transversal intersects parallel lines:

- Alternate Interior Angles are Congruent.
- Alternate Exterior Angles are Congruent.
- Corresponding Angles are Congruent.
- Consecutive (Same Side) Interior Angles are Supplementary.

3.   I can prove theorems about Parallelograms. I know I can because:

> o I can classify parallelograms.
> o I can prove opposite sides of a parallelogram are parallel and congruent.

- o I can prove opposite angles of a parallelogram are congruent.
- o I can prove consecutive angles of a parallelogram are supplementary.
- o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

- o I can find the measure of segments in a triangle using the midsegment theorem.
- o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Parallelograms Practice Quiz (Guided)

Parallelograms Quiz (Independent)

Finish 3.3A

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 7:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

- o I can give a precise definition of:

  - ● Vertical Angle
  - ● Linear Pair
  - ● Supplementary Angles
  - ● Complementary Angles
  - ● Parallel Lines
  - ● Transversal
  - ● Alternate Interior Angles
  - ● Alternate Exterior Angles
  - ● Consecutive Interior Angles
  - ● Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

- o I can prove vertical angles congruent.

- o I can prove when a transversal intersects parallel lines:

  - ● Alternate Interior Angles are Congruent.
  - ● Alternate Exterior Angles are Congruent.
  - ● Corresponding Angles are Congruent.
  - ● Consecutive (Same Side) Interior Angles are Supplementary.

3. I can prove theorems about Parallelograms. I know I can because:

- o I can classify parallelograms.
- o I can prove opposite sides of a parallelogram are parallel and congruent.
- o I can prove opposite angles of a parallelogram are congruent.
- o I can prove consecutive angles of a parallelogram are supplementary.

o   I can prove diagonals of a parallelogram bisect each other.

4.   I can prove theorems about triangles. know I can because:

    o   I can find the measure of segments in a triangle using the midsegment theorem.
    o   I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Types of Quadrilaterals (Guided)

4-2 Quadrilateral Problems WS (Guided)

iXLs N: 2, 4, 6, 7

6.2A WS (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: Special Parallelograms WS

Day 8:

Learning Targets and Success Criteria:

1.   I can define geometric terms. I know I can because:

  o   I can give a precise definition of:

● Vertical Angle	● Alternate Interior Angles
● Linear Pair	● Alternate Exterior Angles
● Supplementary Angles	● Consecutive Interior Angles
● Complementary Angles	● Corresponding Angles
● Parallel Lines	
● Transversal	

2.   I can prove theorems about lines and angles. I know I can because:

    o   I can prove vertical angles congruent.

    o   I can prove when a transversal intersects parallel lines:

        ● Alternate Interior Angles are Congruent.
        ● Alternate Exterior Angles are Congruent.
        ● Corresponding Angles are Congruent.
        ● Consecutive (Same Side) Interior Angles are Supplementary.

3.   I can prove theorems about Parallelograms. I know I can because:

    o   I can classify parallelograms.
    o   I can prove opposite sides of a parallelogram are parallel and congruent.
    o   I can prove opposite angles of a parallelogram are congruent.

o I can prove consecutive angles of a parallelogram are supplementary.
o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

> o I can find the measure of segments in a triangle using the midsegment theorem.
> o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Median and Midsegments PowerPoint (Guided)

5.4A WS (Midsegments) (Guided)

Midsegment Theorem Practice WS (Guided)

Midsegments Practice 1 (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 9:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

    o I can give a precise definition of:

● Vertical Angle	● Alternate Interior Angles
● Linear Pair	● Alternate Exterior Angles
● Supplementary Angles	● Consecutive Interior Angles
● Complementary Angles	● Corresponding Angles
● Parallel Lines	
● Transversal	

2. I can prove theorems about lines and angles. I know I can because:

    o I can prove vertical angles congruent.

    o I can prove when a transversal intersects parallel lines:

    - ● Alternate Interior Angles are Congruent.
    - ● Alternate Exterior Angles are Congruent.
    - ● Corresponding Angles are Congruent.
    - ● Consecutive (Same Side) Interior Angles are Supplementary.

3. I can prove theorems about Parallelograms. I know I can because:

    o I can classify parallelograms.
    o I can prove opposite sides of a parallelogram are parallel and congruent.

- o I can prove opposite angles of a parallelogram are congruent.
- o I can prove consecutive angles of a parallelogram are supplementary.
- o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

- o I can find the measure of segments in a triangle using the midsegment theorem.
- o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Midsegment Practice Quiz (Guided)

Midsegment Practice 2 (Guided/Independent)

Midsegments Quiz (Independent)

Parallel Lines, Parallelograms, and Midsegments Test Review 1 (Guided/Independent)

Parallel Lines, Parallelograms, and Midsegments Test Review 2 (Guided/Independent)

Parallel Lines, Parallelograms, and Midsegments Test Review 2 (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)

Day 10:

Learning Targets and Success Criteria:

1. I can define geometric terms. I know I can because:

- o I can give a precise definition of:

  - Vertical Angle
  - Linear Pair
  - Supplementary Angles
  - Complementary Angles
  - Parallel Lines
  - Transversal
  - Alternate Interior Angles
  - Alternate Exterior Angles
  - Consecutive Interior Angles
  - Corresponding Angles

2. I can prove theorems about lines and angles. I know I can because:

- o I can prove vertical angles congruent.

- o I can prove when a transversal intersects parallel lines:

  - Alternate Interior Angles are Congruent.
  - Alternate Exterior Angles are Congruent.
  - Corresponding Angles are Congruent.

- Consecutive (Same Side) Interior Angles are Supplementary.

3. I can prove theorems about Parallelograms. I know I can because:

   o I can classify parallelograms.
   o I can prove opposite sides of a parallelogram are parallel and congruent.
   o I can prove opposite angles of a parallelogram are congruent.
   o I can prove consecutive angles of a parallelogram are supplementary.
   o I can prove diagonals of a parallelogram bisect each other.

4. I can prove theorems about triangles. know I can because:

   o I can find the measure of segments in a triangle using the midsegment theorem.
   o I can find the measure of segments in a triangle using the medians.

Standard: **MGSE9-12.G.CO.1, 9, 10, 11**

Introduction/Connection:

Daily 10

Direct Instruction/Guided Practice/Assessment Strategy/Assignment:

Finish Test Review

Parallel Lines, Parallelograms, and Midsegments Test (Guided/Independent)

Summarizers: Discuss and correct questions they thought were difficult.

Homework: None :)