Geometry

March 11-15, 2024 Chapter 7 Polygons End -- Chapter 11 Area

Plan for week overview:

Monday - review Chapter 7 (excluding midsegments)

Tuesday - Chapter 7 TEST

Wednesday - Section 11.1: perimeter/circumference/arclength of circles

Thursday - PI DAY 3.14 Celebration

Friday - area of polygons and circle with composite shapes

Find the sum of interior and exterior angles of polygons. Classify polygon: concave/convex, hexagon, etc.

Use the properties of quadrilaterals to find measures of ANGLES and segments by DIAGONALS in

- Parallelogram, rectangle, rhombus, square
- Trapezoid, isosceles trapezoid
- Kite

CC State	CC Mathematical
Standards	Practice Focus
HSG-CO.C.11 HSG-SRT.B.5 HSG-MG.A.1 HSG-MG.A.3	MP2, MP3, MP6, MP8

Monday

Monday - warmup with online assignment of these problems - 10 minutes only



- Review past notes, test, and graphs of trapezoid and kite worksheets from THURSDAY
- If time, finish clue sheet C, D, F as did A, B, E Friday

Wednesday: Section 11.1

• Watch Circumference of a circle video:

https://static.bigideasmath.com/protected/content/hs_tut/geo/c11/01/HSCC_G eom_11_01_ee1/HSCC_Geom_11_01_ee1.html and take notes on SJ pg.316

- Discuss the value of PI and tomorrow's celebration of it.
- Discuss arclength as a partial circumference
- Watch video #3 about application on distance using a wheel. SJ pg 315
- Watch video #4 on composite figure perimeter with side lengths.

• Complete student journal pg. 318 # 1-5 (exclude radian discussion)

Thursday PI DAY 3.14 Celebration

- The Pi Song: https://www.youtube.com/watch?v=3HRkKznJoZAH
- Website for MILLION digits of PI: <u>ttps://www.piday.org/million/</u>
- Take the quiz
- The reading of Sir Cumference and the Dragon of Pi https://www.youtube.com/watch?v=39aknOrsnbs
- History video: <u>https://www.youtube.com/watch?v=1-JAx3nUwms</u>
- Bonus points:
 - Most recited values of PI (1st = 3 pts, 2nd = 2 pts, 3rd = 1 pt)
 - Bring in edible PI items (Pie = 3 pts, others at discretion of Mrs. Pletcher see list)

Friday: Section 11.2

• Watch AREA of a circle video:

https://static.bigideasmath.com/protected/content/hs_tut/geo/c11/02/HSCC_G eom_11_02_ee1/HSCC_Geom_11_02_ee1.html and take notes on SJ pg.322

- Discuss sector as a partial area
- Watch video #3 about area of sector (partial area)
- Watch video #5 on composite figure area with side lengths.

• Complete student journal pg. 323 # 3-8 (exclude discussion)

PARALLELOGRAM --- defined by 2 pairs of parallel sides

EdPuzzle notes:



Ways to Prove a Quadrilateral Is a Parallelogram

1. Show that both pairs of opposite sides are parallel. <i>(Definition)</i>	£,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
2. Show that both pairs of opposite sides are congruent. (Parallelogram Opposite Sides Converse)	
3. Show that both pairs of opposite angles are congruent. (<i>Parallelogram Opposite Angles Converse</i>)	
 Show that one pair of opposite sides are congruent and parallel. (Opposite Sides Parallel and Congruent Theorem) 	
5. Show that the diagonals bisect each other. (Parallelogram Diagonals Converse)	

NOTES: focus on DIAGONALs relationships

Finishing Drawing Notes for use on TEST and a grade.

Due at time of formal unit test TBA

(10) points total

- Label shape and measures for sides, at least 2 angles at diagonal and polygon vertex intersection. (5)
- Have some notes on diagonals characteristics as properties of the shape. (3)
- Color (2)

