Geometry 0A - Angle Pairs and Reasoning Unit

Thursday, October 13, 2016  
Objective: I can discover and apply the Vertical Angles and Linear Pair conjectures, as well as triangle sum.

* Make-up issues on Construction Quiz (new seats)
* Investigations 1 and 2 on pp 120-121. Write up Linear Pair Conjecture in notes (If two angles are a linear pair, then they are supplementary.) Write up Vertical Angle Conjecture (If two angles are vertical angles, then they are congruent.)
* Try problems 1-6 on pp 122-3.
* Investigation 4.1 – triangle sum
* Do problems 2-5 on triangle sum.
* Share answers, discuss.
* Try problem 8 on triangle sum.
* View quizzes

No Homework. Aspire Interim on Monday

Monday, October 17,2016

Aspire Interim

Wednesday, October 19 – no class for PSAT

Friday, Oct 21, no school, PT conferences

Monday, Oct 24

Objective: I can apply linear pairs, vertical angles, and triangle sum to find missing angles and use algebra to find missing angles.

* Warm-up: quick review of the conjectures from October 13
* Worksheet #1 – Linear Pairs and Vertical Angles
* Share answers
* Worksheet #2 – Triangle Sum
* Substitute collects all work  
  No homework.

Wed, October 26, 2016  
Objective: I can identify and interpret transversals and angle pairs.

* Warm-up: yellow sheet – glue into vocabulary, quick review of the four angle pairs from 7th grade math.
* Modeling: lines and angles with yarn. Get into certain angle positions
* What happens when lines are parallel? Glue second sheet into notebook with theorems on it. If the lines are parallel, then the angle pairs are congruent.
* Notebook update.
* Practice applying angle pairs (small sheet)
* Pass out homework #1
* Do first four problems together. Finish for homework, due Monday

Monday, October 31, 2016

Objective: I can apply parallel line theorems to find missing information in a sketch.

* Warm-up: matching sketches and terms on board, p 129:1-3,6
* Take a grad eon HW #1 – 4 pts
* Angle Pair Naming Activity (self-check)
* Angle Chaser with Partners – find all missing angles and give a reason for how you found it by naming an angle pair.
* Go over HW/ questions
* Two lines and a transversal: are they parallel? Explain.
* Share good work on Angle Chaser (take a 4 pt grade)
* HW #2 – handout; get started

Quiz Friday – angle pairs and why; are the lines parallel

Wednesday, November 2, 2016

Objective: I can apply parallel line theorems to find missing angles and explain what relationship allows me to find the missing angle.

* Card sort – angle pairs – match sketches to names, determine if congruent or supplementary. Practice twice or more.
* Take a grade on HW #2 – 4 pts
* Share HW answers
* Algebra practice from angle pairs
* Formative assessment – justify: what is the measure? How do I know?
* Writing on index card – Are these lines parallel? How do I know?
* HW #3 – start in class

Quiz Friday – find missing angles, name angle pairs, some algebra, are the lines parallel?

Friday, Nov 4

Objective: I can demonstrate mastery over parallel lines and transversal angles, vertical angles, and linear pairs and their special relationships.

* Verbally from board, describe what you see? Sketch used in Wednesday’s index card activity.
* Share good student writing.
* Now try another one verbally… let several students say what they see.
* Try an algebra problem based on corresponding angles.
* Take a grade on HW# 3 – 4 pts
* Share homework; questions
* Congruent or supplementary or neither? Do the lines have to be parallel?
* Quiz – Angle pairs – 20 pts
* HW #4 – review for next Thursday’s quiz.  
  50 pt “quest” next Thursday, November 10, on Google Forms – angle pairs

Tuesday, November 8, 2016

Objective: I can explain what angle relationships will cause lines to be parallel. I can name angle pairs and transversals.

* Warm-up: Naming activity: are these two sketches the same? Popcorn around the room: name angle pairs, lines to ignore, transversals (if there is one), what angles will make lines parallel?
* Take a grade on HW #4 – 4 pts
* View answers to HW #4 and correct it.
* Open response: writing and explaining (how to type in box)
* Return quizzes. Correct; interpret
* HW #5 – Open Response
* How to study for test next time. Format of test.

Test Thursday – 50 pts – angle pairs and reasoning (short answer, multiple choice, explain why)

Thursday, November 10, 2016

Objective: I can demonstrate mastery over angle pairs and reasoning.

* Warm-up: practice quiz, and identify angles
* Share warm-up
* Share good work on HW #5
* QUEST – 50 pts/ angle pairs