Geometry 2016 – Daily Lessons for Rigid Transformations

Monday, November 14, 2016

I can define and interpret rigid transformations visually; I can find types of symmetry in geometric figures.

* I know/ I wonder – real world transformations
* Make-up issues
* Notebuilding – close notes for pp 358-61 on yellow sheet. Glue into notes.
* Practice – patty paper reflection
* Practice – patty paper rotation
* Investigation – lines and points of symmetry. How many in a regular polygon?
* HW #6 – handout with square dot paper

Wednesday, November 16, 2016

Objective: I can translate figures with our without graph paper using multiple notations. I can decide if a transformation is rigid or non-rigid.

* Warm-up: rigid or non-rigid; glue in notes, catch up notes from Monday
* Take a grade on HW #6 – 4 pts
* Add to yesterday’s notes over translations/ share HW answers on screen
* Translation note-building – green sheet
* Translation Investigations (1-3)
* HW #7
* View “quest” scores

Friday, November 18, 2016

Objective: I can define and interpret rigid transformations visually. I can translate and reflect points, segments, and triangles in the coordinate plane.

* Warm-up: translation three multiple choice questions
* Take a grade on HW #6 – 4 pts
* Share HW and warm-up
* Reflection foldable – note-building on yellow sheet.
* In class practice: worksheet with seven problems done on graph paper and turned in for 5 point grade.

Tuesday, November 29, 2016

Objective: I can reflect figures on patty paper and in coordinate plane. I can rotate figures in the coordinate plane.

* Warm-up: What are coordinates? How do we graph them? How do we describe them? What does it mean to say “change the sign of x”.
* Finish worksheet and collect. New seats.
* Investigation about patty paper reflections and dstances on p 360. Share good work.
* Rotation introduction and practice by rotating paper or by copying & rotating patty paper.
* HW #8 – reflection. Quiz Thursday, end of class, vocabulary and rigid transformations.

Thursday, December 1, 2016

Objective: I can demonstrate mastery over basics of rigid transformations (including reflection and translation and composition of those)

* Warm-up: vocab popcorn questions from notes; add to notes on rotations
* Investigation: 2 translations; condense to one
* Investigation: translate, then reflect; what does it mean to be congruent? Naming, vector notation, etc.
* Rotation Activity (includes rotating around a point not the origin)
* Share results.
* Pass out HW #9; return in-class activity from Tuesday (5 pts)
* Quiz – Transformations – 18 pts

Test next Wednesday – 1st half of class – 60 pts

Monday, December 5, 2016

Objective: I can apply skills and concepts related to rigid transformations and symmetry.

* Symmetry Activity
* Take a grade on HW #8 and #9 – 4 pts each
* Share good homework.
* Share good warm-ups.
* In class work – Multiple transformations 5 problems.
* View quizzes. Make-up issues.
* Share activity answers.
* Pass out test topics.
* Pass out Review HW #10 – due Wednesday.

Wednesday – answers to HW, Trash-ketball, Unit Test – 60 pts

Wednesday, December 7, 2016

Objective: I can demonstrate mastery over rigid transformations.

* Correct review assignment. Questions.
* Trashketball review
* Rigid Transformation Unit Test – 60 pts

NO HOMEWORK. Review for final begins Friday.

Friday, December 9, 2016

Objective: I can apply skills and concepts related to reasoning and vocabulary.

* Preview dates and resources for final. Reward system for study days.
* What is inductive reasoning, deductive, compare? Questioning.
* Do p 1 of review with a partner.
* Share answers.
* Naming practice. Algebra practice.
* Do p 2 of review.
* Share answers.
* Start p 3 if time. Pass out p 4 for homework. Make-up issues for test, HW, etc.

Tuesday, December 13, 2016

Objective: I can apply skills and concepts related to constructions, transformations, and angle pairs, including algebra.

* Angle pairs popcorn review – names, congruent?, supplementary? Parallel?
* Finish p 4 and work p 5 of review.
* Self-check, answers on cart
* DO p 3 of review
* Check answers on cart
* Finish p 6 of review (for HW if not done in class)
* Pass out topic list. How to study for final.
* View Transformation Test with Ms. Bogart
* Check any work you have done in class. Complete all of the review to turn in for 15 pt grade on the morning of the final.

Final Exam – Thursday, December 15, 7:15 – 8:45 am