**Unit 6 – Transformations HW**

**Essential Questions:**

* Are translations, reflections, rotations, and dilations sufficient to describe the movement of any figure? (CO 6-8)
* How do you identify transformations that are rigid motions? (CO 2-5)
* How do you draw the image of a figure under a reflection, rotation, translation, dilation? (CO 2-5)
* How do the SSS, SAS, and ASA congruence criteria follow from the rigid motion definition of congruence? (CO 8)
* What must be true about the segment that connects the midpoints of two sides of a triangle? (CO 10)
* How do you find the point on a directed line segment between two given points that partitions the segment in a given ratio? (GPE 6)
* How can you use your knowledge of geometric concepts to model real-world situations?

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| **Day** | **Date** | **Lesson** | **Assignment** |
| 1 | Mon, Nov 6 | Intro to Transformations and Translations | HW 7-1 |
| 2 | Tues, Nov 7 | Reflections across x-axis, y-axis, and y=x | HW 7-2 |
| 3 | Wed, Nov 8 | **QUIZ 1, Days 1-2**  Reflections over lines and Dilations | HW 7-3 |
| 4 | Thurs, Nov 9 | Rotations | HW 7-4 |
| 5 | Fri, Nov 10 | Holiday! |  |
| 6 | Mon, Nov 13 | Composition of Transformations | HW 7-5 |
| 7 | Tues, Nov 14 | Quiz / Barnyard Project | Finish Barnyard Project |
| 8 | Wed, Nov 15 | Review | Review Worksheet |
| 8 | Wed, Nov 15 | Unit 6 Test | Unit 7 Placemat |