Mathematics Class Slides
Bronx Early College Academy

Chris Huson

26 November 2018

4.1 Project: Triangle congruence project, Monday 26 November

4.1 Drui: Triangle congruence. Monday 26 November

4.2 Drui: Deltamath. Tuesday 27 November

4.3 Drui: Triangle proofs. Wednesday 28 November

4.4 Drui: Pretest review. Thursday 29 November

4.5 Drui: Exam. Friday 30 November

Construction project: Triangle congruence
CCSS: HSG.CO.C.9 Prove geometric theorems   4.1

Four pages of $\triangle$ duplication constructions for binder

1. Side-side-side (SSS)
2. Side-angle-side (SAS)
3. Angle-side-angle (ASA)
4. Side-side-angle (SSA), false, "ambiguous case"

Grading criteria (20 points)

1. Complete and correct construction
2. State postulate or theorem. (written steps not necessary)
3. MLA header, center title & last name on right
4. Precise, elegant, mathematical aesthetic

Due Friday November 30

GQ: How do we construct congruent triangles?

CCSS: HSG.CO.C.9 Prove geometric theorems   4.1 Monday 26 November

Do Now:

1. Trig review problems handout
2. $+, \triangle$ What is working? What would you change?

Seating chart
2nd trimester norms and expectations
$\triangle$ congruence construction project, SSS
Homework packet review, trig problems

Homework: Distance, midpoint, and slope review, handout
Parent-teacher conferences Thursday & Friday

GQ: How do we use trigonometric ratios?

CCSS: HSG.CO.D.12 Congruence, geometric constructions   4.2 Tuesday 27 November

Do Now: SAS △ congruence

1. Duplicate a side, duplicate an angle, duplicate a side.
2. Angle must be the *included* angle, between the two sides
3. $\triangle ABC \cong \triangle A'B'C'$ iff
   $\overline{AB} \cong \overline{A'B'}, \angle A \cong \angle A'$, and $\overline{AC} \cong \overline{A'C'}$

Geogegra intro (?)
Deltamath assessment: distance, midpoint, and slope
Deltamath homework: trig ratios, triangle relationships

Homework: Complete deltamath (10pm deadline)
Parent-teacher conferences Thursday & Friday

GQ: How do we prove triangles congruent?
CCSS: HSG.CO.D.12 Congruence, geometric constructions 4.3 Wednesday 28 November

Do Now: Theorems review handout
Triangle sum, transversal, vertical

Angle-side-angle (ASA) △ congruence

1. Duplicate an angle, duplicate a side, duplicate an angle
2. $\triangle ABC \cong \triangle A'B'C'$ iff
   $\angle A \cong \angle A'$, $\overline{AB} \cong \overline{A'B'}$, and $\angle B \cong \angle B'$

Lesson:
Triangle congruence proofs
Assessment: distance, midpoint, and slope

Homework: Pretest packet. Test Friday

GQ: How do we prove triangles congruent?
CCSS: HSG.CO.D.12 Congruence, geometric constructions   4.4 Thursday 29 November

Do Now: Triangle congruence practice handout

SSA △ congruence (or ASS, "jack ass theorem")

1. Duplicate an angle, duplicate a side, duplicate an side
2. Given $\triangle ABC$ if $\angle A \cong \angle A', \overline{AB} \cong \overline{A'B'}$, and $\overline{BC} \cong \overline{B'C'}$ then two possible $\triangle$s may result.

Lesson:
Review problems for take home test

Homework: Complete $\triangle \cong$ project due tomorrow

GQ: How do we prove triangles congruent?

CCSS: HSG.CO.D.12 Congruence, geometric constructions   4.5 Friday 30 November

Unit exam

Triangle congruence project due

Homework: Take home test