

Name (print first and last) \_\_\_\_\_  
#2 Geometry Foundations

Per \_\_\_\_\_ Date: 7/2 due 7/3  
Geometry Regents Summer 2013 Ms. Lomac

SLO: I can explain the basic concerns of geometry.

(1) Write down the following information – you will need it:

Ms. Lomac's email address: [lara.lomac@rcsdk12.org](mailto:lara.lomac@rcsdk12.org)

Ms. Lomac's website: <http://rcsdk12.org/site/default.aspx?DomainID=6881>

You can also access my website by going to the rcsd home page, click on

Schools – NECP or North East College Prep – Teachers – Lomac – Summer School Geometry 2013

(2) Write down 3 things you remember from the work you did yesterday

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(3) Your homework for tonight will be to memorize the meanings of the following terms (a Geometry glossary link is on my website). You will need to be able to describe each term with words. For any term that has a visual representation, you will need to recognize them in drawings and be able to draw them.:

geometry  
1D, 2D, 3D  
segment  
transformation

point  
collinear  
length/distance

line  
coplanar  
congruent segments

plane  
endpoint  
compass

dimension  
ray  
construction

(4) Teacher comments from yesterday's work that apply to me:

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(5) Notes on Memorization video:

Memorization strategy that I will use tonight for my homework (circle 1): Flash cards / memory picture.

(6) Geometry foundations notes and thoughts: **(location, distance, position, direction, + relationships)**

(7) At right is point A.

A •

- Trace point A onto a blank piece of paper, label the point A and poke a tiny hole in the paper.
- Slide the traced A to the right (not too far). **Carefully** put your pencil through the hole and mark a new point.
- Label the new point B
- Point A has **location, distance, direction** (circle all that apply)
- Point B has **location, distance, direction** (circle all that apply)
- Connect point A to point B. You should now have line segment AB
- Using point C below, mark 5 different location that point D could be placed such that segment CD will be the same length as segment AB.

C •

- Pat yourself on the back. You have just made your first paper compass. Now use your compass to show where ALL of the locations that point D could be placed such that segment CD will be the same length as segment AB.
- What shape did you make?
- Finish copying AB by connecting C to one location that can represent D and labeling it point D
- Complete the equation and congruence statements:  $AB = \underline{\hspace{2cm}}$   $AB \cong \underline{\hspace{2cm}}$

(8) Using what you learned in # 7, try each challenge below:

X ————— Y

a) Construct triangle LMN such that side LM is the length of segment XY and segments MN and NL are not.

b) Construct triangle PQR such that both segments PQ and QR have the same length as segment XY, but segment PR does not.

c) Construct triangle STU such that all three sides are the length of XY

(9) Almost done. Look at the picture at right and circle the statement that most accurately answers the question, "Which step have you reached today?"

