

Plan of the Day:

- 1) Start working on your plate maps in class today so you may finish your maps by the end of next week and start your essays.
- 2) CONTINUE reading and answering questions in Unit 4.

Unit 2 Disciplinary Core Ideas**ESS2.A: Earth's Materials and Systems**

- All Earth processes are the result of energy flowing and matter cycling within and among the planet's systems. This energy is derived from the sun and Earth's hot interior. The energy that flows and matter that cycles produce chemical and physical changes in Earth's materials and living organisms.

ESS1.C: The History of Planet Earth

- Tectonic processes continually generate new ocean sea floor at ridges and destroy old sea floor at trenches. (HS.ESS1.C GBE), (secondary)

ESS2.B: Plate Tectonics and Large-Scale System Interactions

- Maps of ancient land and water patterns, based on investigations of rocks and fossils, make clear how Earth's plates have moved great distances, collided, and spread apart.

Sep 17-11:35 AM

Continue reading Unit 4:

Different students are at different places in the readings based on work ethic:

- a) Read Unit 4 Lesson 2 (pages 200-212). Answer questions 1-22 (omit 10).
- b) Read Unit 4 Lesson 3 (pages 216-224). Answer questions 1-19 (omit 7 & 11).
- c) Read Unit 4 Lesson 4 (pages 226-236). Answer questions 1-22 (omit 16 & 17).
- d) Read Unit 4 Lesson 5 (pages 238 - 246) Answer questions 1-20 (omit 11, 14 & 15).

Jan 11-3:26 PM

Expected vocabulary for the essay:

Divergent	Convergent	Transform
Gain crust Sea-floor spreading Mid-ocean ridge Rift valley Earthquakes	Lose crust Subduction Subduction zone Ocean trench Mountain building Earthquakes	Neither gain nor lose crust Plates slide past each other Earthquakes

Miscellaneous terms for the essay:

Magma Lava Plate boundary Tectonic plate	Basalt Granite Ocean crust Continental crust	Fault Mountains Convection currents
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Jan 30-6:54 AM

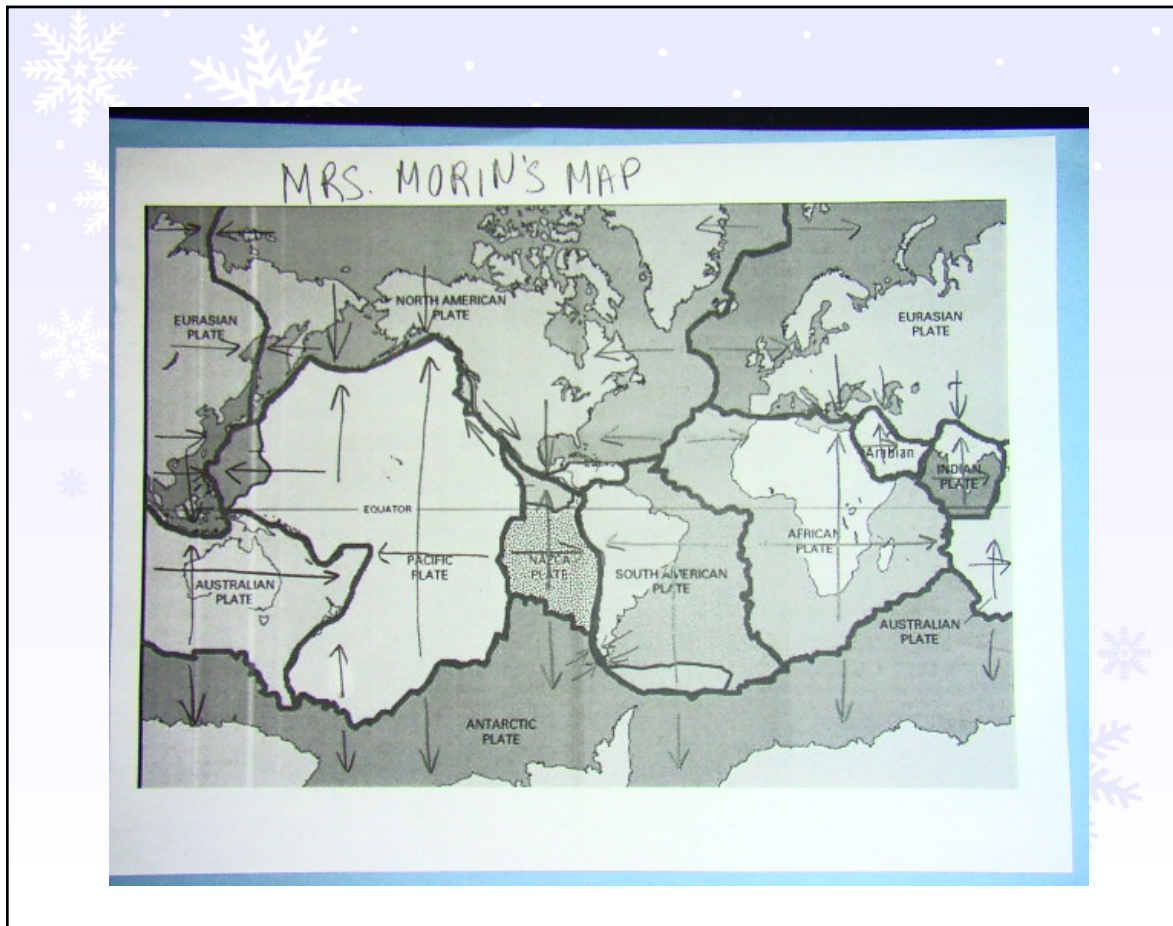
You will first need to cut out your tectonic plates.

Remember! You are cutting ONLY along the DARK HEAVY LINES!

You need to join the two pieces of the
Eurasian plate (2 pieces)
Australian plate (2 pieces)

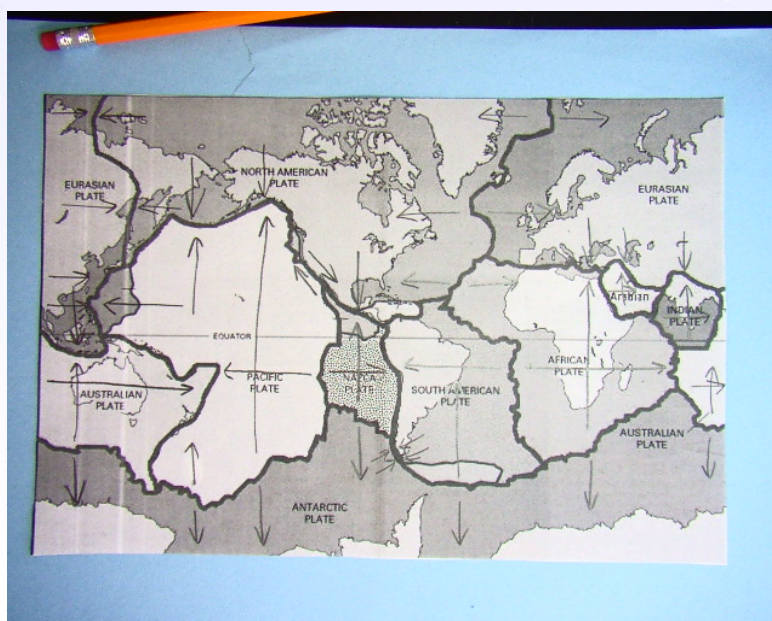
together to make each into ONE PLATE.
EACH PLATE moves as one unit!

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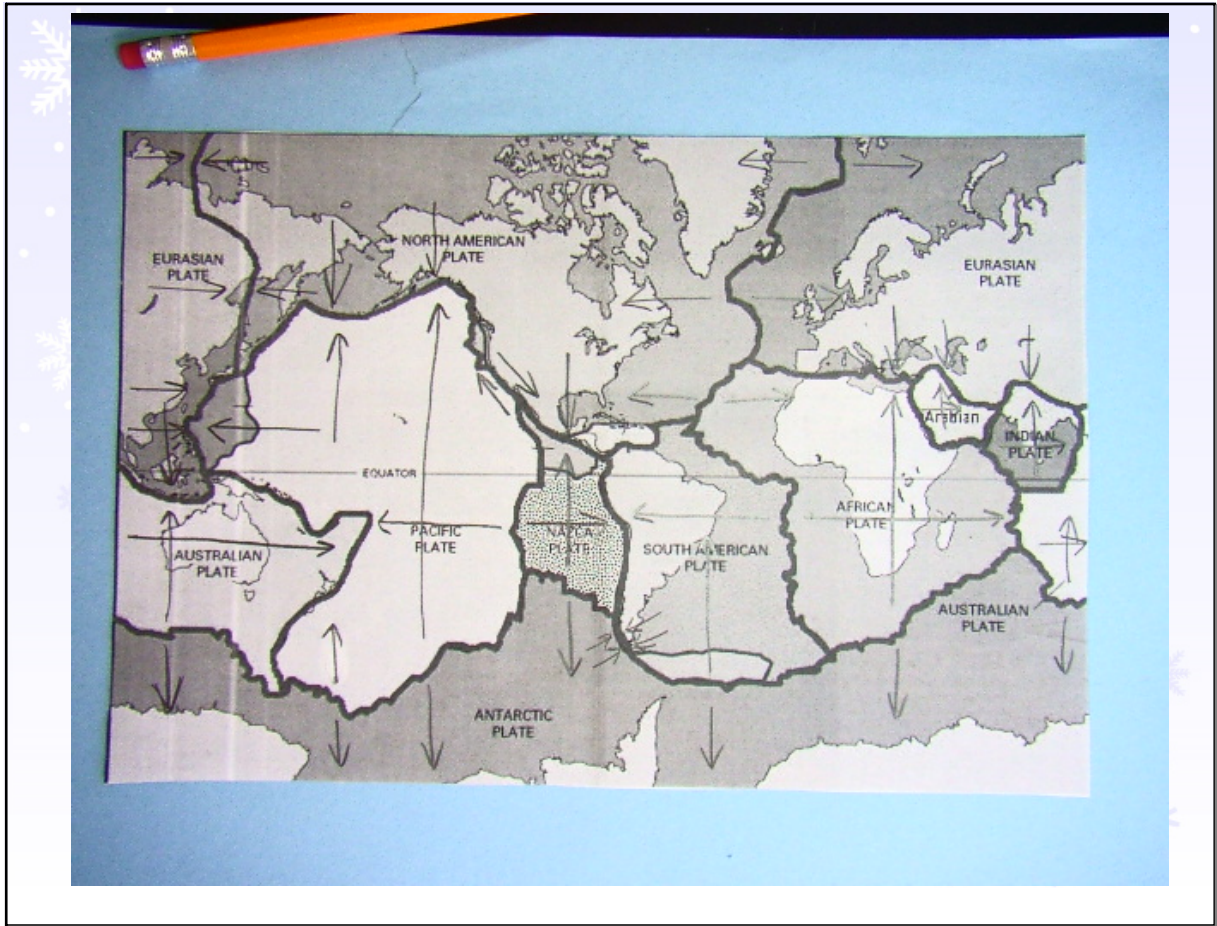


Jan 12-7:52 AM

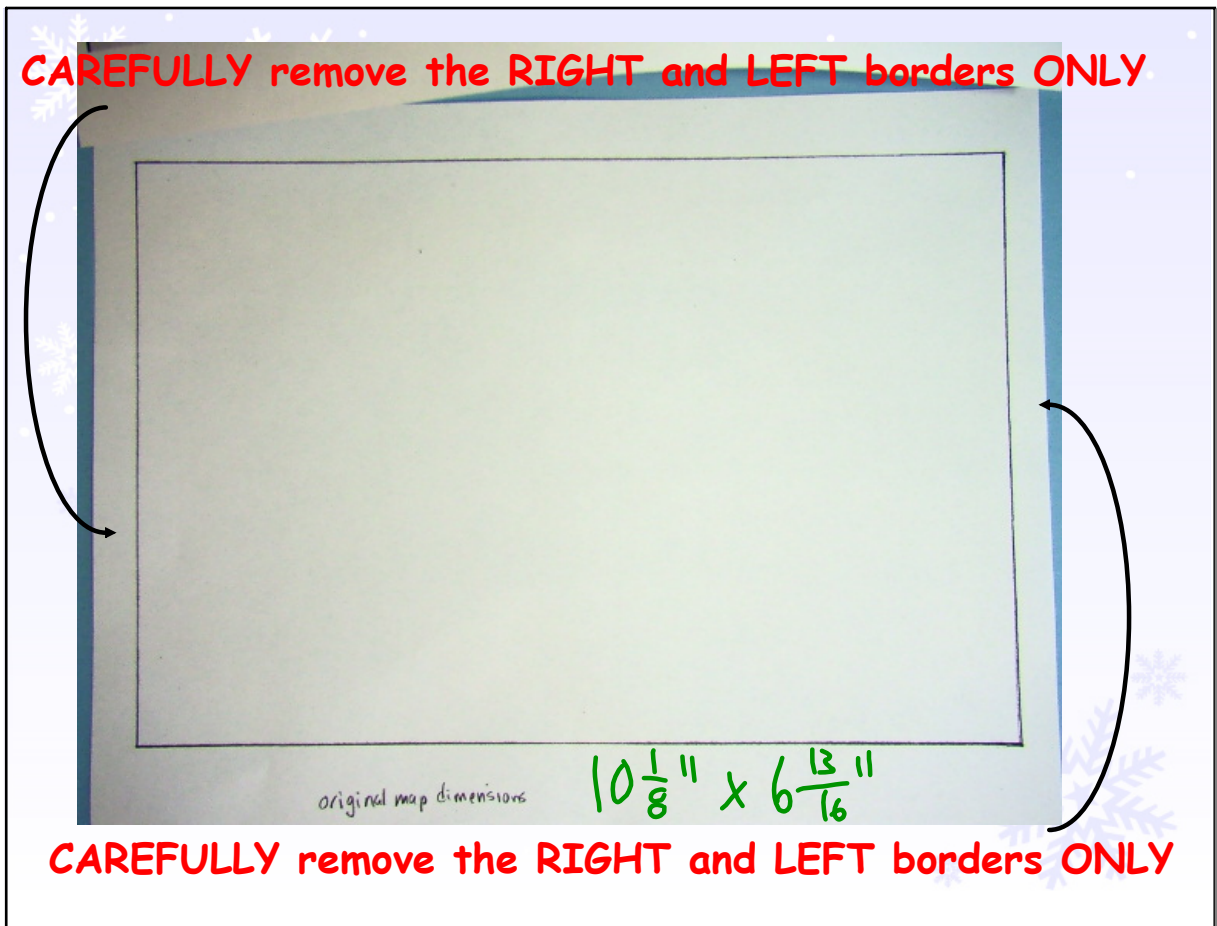
CAREFULLY cut off the white border around your map cutting along the lines as straight as possible. Your map should look like this:



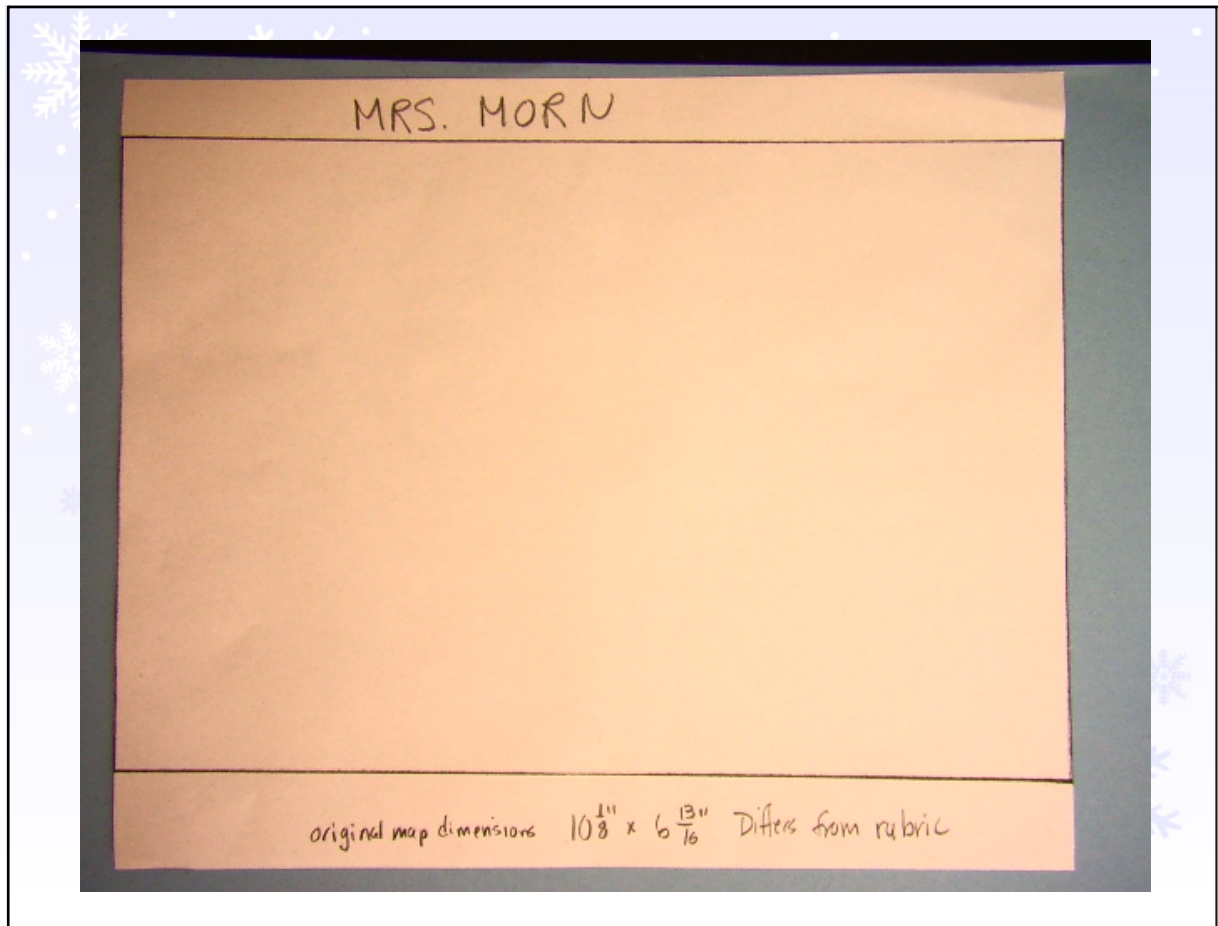
Jan 29-8:06 AM



Jan 12-7:52 AM



Jan 12-7:52 AM



Jan 12-7:52 AM

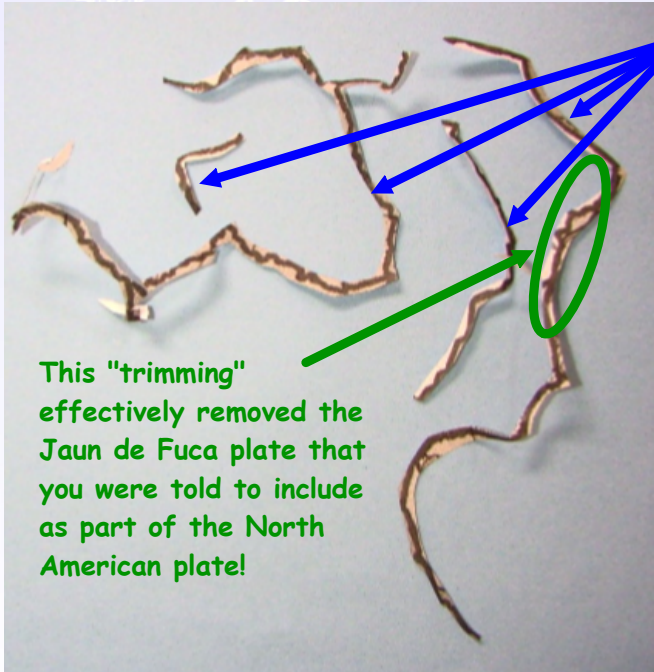
Cut out the Antarctic plate carefully following the **DARK HEAVY** lines. Put your name on the back and place in your ziplock bag.



Do **NOT** cut off the boundaries (dark heavy lines)! Try to cut through the center of the line.

Jan 29-8:12 AM

REPEAT!!! Do NOT cut off the boundaries (dark heavy lines)!
(dark heavy lines)!



This "trimming" effectively removed the Juan de Fuca plate that you were told to include as part of the North American plate!

THIS failure to follow directions will cost you POINTS on the map portion of the project.

Do your BEST to cut through the center of the DARK HEAVY lines.

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NOW, carefully cut out the part of the Australian plate immediately below the Indian Plate.



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Cut out the OTHER part of the Australian Plate on the left side of the map as shown.



Join the two pieces together to form the entire plate.



Jan 29-8:18 AM

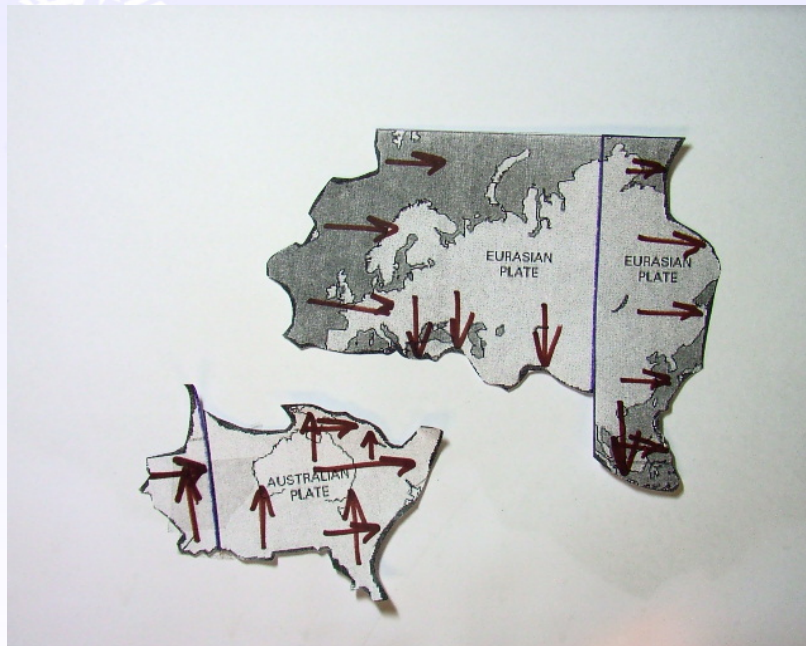
Cut out the two pieces that make the Eurasian Plate



Join them together as shown

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You should end up with



Jan 30-7:04 AM

Cut out the remaining 7 plates being careful to cut **ONLY** the dark heavy lines.

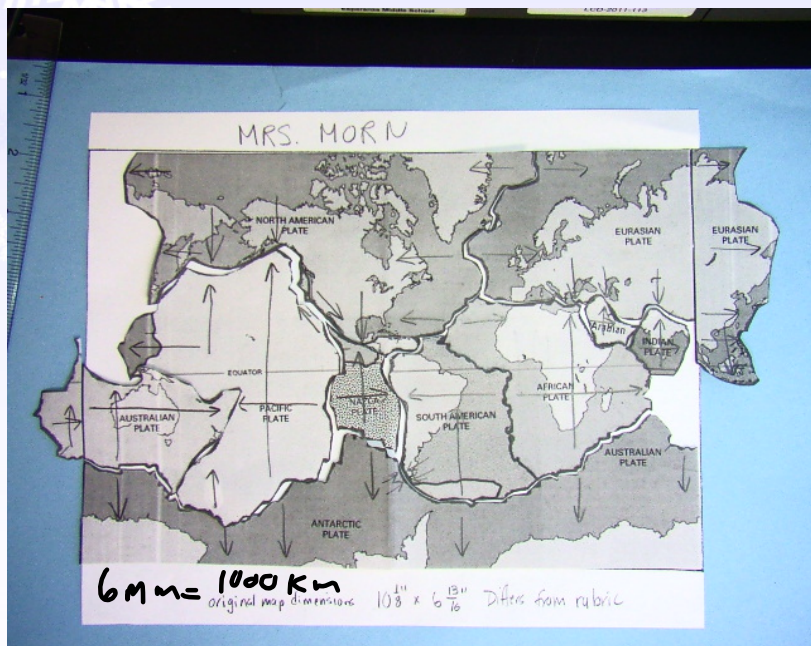
Put your name on the back of each piece and place all map pieces in the ziplock bag you brought to class.

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Jan 29-11:58 AM

Now, piece your map back together.
Notice your map now violates a rubric rule! Which one?



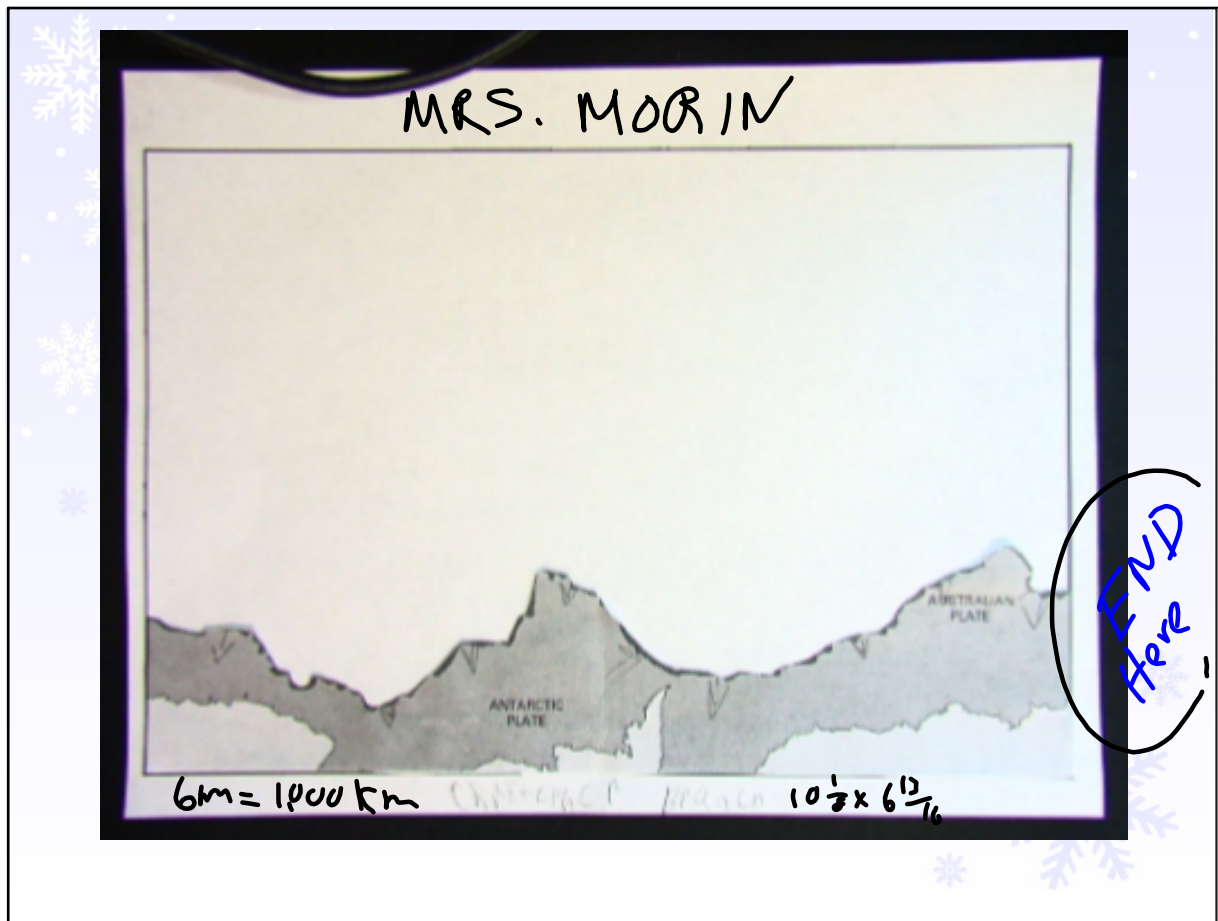
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Then, you will need to take a systematic approach to be successful in moving the plates on your map.

Suggestions?

Find a country or island that is ~1000 km on a map that is scaled.

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Place ALL unused plates BACK into your ziplock bag.

Squeeze out excess air and seal the bag. Place the bag, along with your "under-construction prediction map" in your Dynamic Earth text for next class.

Continue Unit 4 readings...

Jan 11-3:24 PM

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Jan 11-3:26 PM