**PROBLEMS ABOUT PLATE TECTONICS.**

1. You can dictate this problem, give them several minutes and then ask for a volunteer to go to the board. He/she has to explain what he does. **An ocean is 5000 km wide and it is reducing 4 cm per year. How wide will it be in 30 million year.**
2. Ask for a volunteer to draw this: Three continents (A, B and C) and two oceans in between. The ocean on the left is increasing and the ocean on the right is decreasing. Draw the appropriate plate boundaries. Draw the reliefs (any mountain?).
3. Next volunteer (using the previous drawing): **The width of the ocean between B and C is 1600 km and the sea floor destruction speed is 8 cm/year. How wide will it be in 10 million years?**
4. Another volunteer: “A new drawing. Draw this: continent A on the left, continent B on the right and there is a volcanic island in the ocean in between. Now you have to draw all the reliefs and the plates. Answer these questions: Is A going to crash against B? Is A going to collide with the island? Is the island going to collide with B? Draw the picture after the collision.
5. Using the same picture, you give them some data: T**he distance between the island and the continent is 2000 km and the subduction speed is 4 cm/year. When the collision is going to take place?**
6. Then, Pablo will draw some more pictures and they will have to complete drawing the main reliefs. They also will have to say what is happening to the oceans. Are they increasing or decreasing? Are the continents colliding?
7. We will hand out some rocks for each group (5 minutes). They will have to observe and identify them. After that, each student will go to the board to show his/her rock and to say the group it belongs to, the name of the rock, and something of its texture that allows us to interpret its origins.