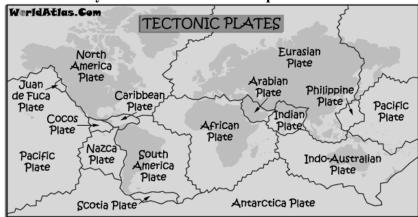
1. Warm-up

Describe the Earth's structure:



Discuss what you know about tectonic plates.



- 2. Complete the first column of the table with the types of contact zones / margins.
 - constructive margins
 - collision zones
 - passive margins
 - destructive margins / subduction zones

TYPE	DESCRIPTION	EXAMPLE
	plates move away from each other, new oceanic crust appears forming mid-ocean ridges with volcanoes	Mid-Atlantic Ridge (Americas moving away from Eurasian and African Plates)
	Oceanic crust moves towards continental crust but, being heavier, sinks and is destroyed forming deep trenches and islands with volcanoes	Nazca sinks under South American Plate (the Andes)
	two continental crusts collide and, as neither can sink, are forced up into fold mountains	the Himalayas, the Alps
	two plates move sideways past each other, land is neither formed nor destroyed	San Andreas fault in California

D. Waugh, Geography, 2002, p.14

3. Comparing two items: both, neither, either, both ... and, neither ... nor, either ... or Practise here http://www.grammar.cl/english/both-either-neither.htm

Complete:

- a) books are very good and of them is expensive so you can study from one.
- b) But our professor doesn't like of them.
- c) I was tired hungry after the long lessons.
- d) she studies harder she'll fail the exam.
- e) Few people attended the lecture. Tom Robin were there.

Find these on the map in ex. 1: Mid-Atlantic Ridge, the Andes, the Himalayas, San Andreas fault. Discuss what happens at these places in relation to tectonic plates. Use some of the words from above in the discussion.

4. Video - Plate Tectonics Theor	v https://www.youtube	e.com/watch?v=mB2pzhWUaiU
----------------------------------	-----------------------	---------------------------

A) Watch the first part. Check your words for the Earth's structure in ex.1.	0-0.50
What information is given about the parts?	

 B) Watch and complete to Two kinds of crust: Why plates move: In what directions: 	he details about: 0.5	0-2.20	
C) Examples. 2.20 – 8.10 emerge friction release edge	Check the meanings o ooze trench ash fold	f these words before watching the solidify fertile plume debris	last part.
A	EXAMPLE: In spotted plumes of ash, and 2 Later the bottom of the ocean two the plates oozed up through diffied, forming lava. This	1	the sea. ATED) rock cocean surface

NOTE

fault - a break in the lithosphere along which movement has occurred

EXAMPLE:

fold - flat and planar surfaces, such as sedimentary strata, are bent or curved as a result of permanent deformation

EXAMPLE: Mount Merapi in

B.....

C conservative margin

D..... *EXAMPLE:*

5. The Andes Mountains. Read the text and answer the questions below.

http://www.coolgeography.co.uk/GCSE/AQA/Restless%20Earth/Andes/Andes%20Case%20study.htm

The Andes Mountains run the length of the West Coast of South America, rising in the north in Colombia and finishing in Chile and Argentina in the south. They are the world's longest mountain range running for over 7,000 km and covering 6 countries.

The mountains have been formed as a result of the convergence of the Nazca plate and the South American plate. The heavier oceanic crust of the Nazca plate is pushed towards the South American plate, and because it is denser it is subducted underneath. The South American plate is less dense so it sits on top of this subduction zone, but the rocks of the South American plate have been folded upwards and crumpled into fold mountains. There are also volcanoes and earthquakes along this destructive plate boundary - earthquakes are caused by stresses building up as the two plates try to move past one another, and volcanoes are caused by magma working its way up through vents in the Earth's crust. This has created a sequence of volcanoes and fold mountains, rising up to 6962 m at Aconcagua. The trench (marking the boundary between the Nazca and South American plates) to the West of the Andes mountains is called the Peru-Chile Trench, and reaches an incredible depth of 8066 m under the sea level.

These areas are very hard to live in because of the physical geography. The relief is very steep making farming difficult, and the high altitude makes breathing difficult. Due to the mountainous terrain it is hard to construct roads and railways.

- 1. Which countries are situated in the Andes?
- 2. How has the South American plate been deformed?
- 3. What are the volcanoes caused by?
- 4. What is the depth of the Peru-Chile trench?
- 5. Why is it difficult to live in these areas?