Plate tectonics and associated landforms using satellite images

Student instructions

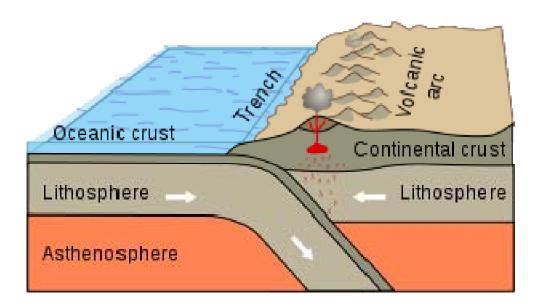
You will be given five satellite images to study in groups. For each satellite image, identify:

- I. the type of plate boundary
- 2. the plates involved in creating the plate boundary
- 3. the visible features
- 4. the hidden features
- 5. the processes involved.

Make notes in the table provided.

You get bonus points if you can indicate on a map where the feature is located.

You will need to use your knowledge gained from the different types of plate boundaries and the landforms they have created.



http://commons.wikimedia.org/wiki/File:Oceanic-oceanic convergence Fig2 I oceanocean.gif, from USGS

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Satellite image	Type of plate boundary	Name of plates	Visible features	Hidden features	Processes
1					
2					
3					
4					
5					

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Teaching notes

- Students work in groups of two to four (dependent on class size).
- Display the PowerPoint of the satellite images on a data projector or electronic whiteboard. Alternatively, they could be colour printed, laminated and distributed as a series of A4 sheets to each group one at a time.
- Allow students five minutes on each image.
- Students record their answers on the table provided (p.7).
- A list of key words/phrases (p.9) could be made available to the students.
- Finish with whole class discussion and check the answers.

Satellite image	Type of plate boundary	Name of plates	Visible features	Hidden features	Processes
I	destructive	Pacific / North American	island arcs ocean trench	volcanoes and earthquakes	subduction
2	constructive	Arabian/African	ridge	transform faults	convection currents
3	constructive	African	Great African Rift Valley	volcanoes and earthquakes	convection currents
4	constructive	American/Eurasian and South American / African	Mid Atlantic Ridge and transform faults	earthquakes	convection currents
5	destructive	Nazca / South American	ocean trench and fold mountains	volcanoes and earthquakes	subduction

Word and phrase bank

- African
- American/Eurasian and South American / African
- Arabian/African
- constructive
- convection currents
- destructive
- earthquakes
- fold mountains
- Great African Rift Valley

- island arcs
- Mid Atlantic Ridge
- Nazca / South American
- Ocean trench
- Pacific / North American
- ridge
- subduction
- transform faults
- volcanoes