Identify the odd one out in each of the terms given below and suggest a reason why it is the odd one out.

For example:

Crust	Wegener	Core	Mantle
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Reason:

Wegener proposed continental drift theory. Crust, Core and Mantle are all concerned with the structure of the Earth.

Find the odd one out



Transform faults	Rift valleys	Ocean ridges	Island arcs
Reason:			

San Andreas Fault	Volcanoes	North American Plate	Pacific Plate
Reason:			

Benioff zone	Ocean trench	Subduction	Iceland
Reason:			

Eurasian Plate	Philippine Plate	Pacific Plate	Nazca Plate
Reason:			
Cotonovi Chilo	Himalayas	Andes	Peru/Chile Trench
Cotapaxi, Chile	Himalayas	Andes	Peru/Chile Trench
Reason:			
Iceland	Japan	Indonesia	Marianas Islands
Reason:			
Mauna Loa, Hawaii	Mount Fuji, Japan	Mount Etna, Italy	Cotapaxi, Chile
Reason:			
Plinean/Pelean	Composite/Caldera	Pyroclastic flows	Basalt
Reason:			

Answers

Answers				
Transform faults	Rift valleys	Ocean ridges	Island arcs	
Reason Island arcs are features associated with destructive boundaries. The other three features are all found at constructive boundaries.				
San Andreas Fault	Volcanoes	North American Plate	Pacific Plate	
Reason Volcanoes are not found at conse	Reason Volcanoes are not found at conservative plate boundaries.			
Benioff zone	Ocean trench	Subduction	Iceland	
Reason Iceland is found at a constructive with destructive boundaries.	boundary on the Mid Atlantic	Ridge. The other three fe	eatures are all associated	
Eurasian Plate	Philippine Plate	Pacific Plate	Nazca Plate	
Reason Eurasian is a continental plate. T	Reason Eurasian is a continental plate. The other three are all oceanic plates.			
Cotapaxi, Chile	Himalayas	Andes	Peru/Chile Trench	
Reason Himalayas formed where two continental plates are moving towards each other. The others are features of an oceanic plate (Nazca) moving towards a continental plate (South American).				
Iceland	Japan	Indonesia	Marianas Islands	
Reason Iceland is a result of a constructive boundary. The other islands are all created by the process of subduction.				
Mauna Loa, Hawaii	Mount Fuji, Japan	Mount Etna, Italy	Cotapaxi, Chile	
Reason A result of hotspot activity therefore lava is basaltic in nature at Mauna Loa. The other volcanoes occur at destructive boundaries and are andesitic in nature.				
Plinean/Pelean	Composite/Caldera	Pyroclastic flows	Basalt	

Reason

Basalt is associated with Icelandic/Hawaiian eruptions. Plinean/Pelean volcanoes produce composite cones/calderas and exhibit pyroclastic flows associated with acidic lava.



Extension activity

Students can use notes to create their own odd one out 'Plate boundaries' activity. This can be shared with other students in the class.