9.2 and 9.3 Types of Volcanoes, and what comes out of them

Name	
Date	
Block	
Types of Magma	
•Magma contains '' – the more silica, the	e more ' ' or 'thick
slow flowing'.	, or unex,
— magma = low silica, fast flowing	
•Darker coloured – (magnesium and i	iron)
= high silica, sl	
•Lighter coloured – (feldspar and	silica)
•Magma also contains gases – mainly	
If the magma is thinner, the gases escape more easily, and harmlessly.If the magma is thicker (viscous), the gases don't escape s explosive effect (eg. Mt. St. Helens).	-
•Basaltic magmas tend to form at	(think Hawaii)
•Andesitic magmas tend to form at	
•Rhyolitic magmas generally form where	
plates (Yellowstone)	
Lava Flows	
Lava Flows • Description lower former baseltie reals approximate of the reals	depende on how it eacle
•Basaltic lava forms basaltic rock – appearance of the rock	-
-'' - Very hot, textures	
-'' – Cooler lava that flows more	and cools more quickly into rough
jagged surfaces.	, and cools more quickly into rough,
–If lava cools underwater, it forms a rounded,	form with a hard crust –
·	
•'' – fragments of ash and	l rocks that are ejected out of a volcanic
eruption	5
 – material less than mm in diameter – material from mm 	
– – greater than mm	
mm – greater than mm (' – a very hot, dense cloud of pyroclastic material that will rush	
downhill with amazing speed (up to the speed of sound) \setminus	
Types of Volcanoes	
<u>- i y pos or v oreanoes</u>	

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⁻Comes from fast flowing, Basaltic lava

-Lava builds up in layers with wide bases and gently sloping sides

-Mountains can get to great heights

-Less explosive, but lava can be very damaging to homes and property.

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•Forms when molten lava is thrown into the air from a vent, and fragments cool before hitting the ground.

-Fragments accumulate forming a cone-shaped mound with an oval base.

-Smaller, and form in ______ on the sides of

•_____

_____•

•Form when layers of erupted materials from many eruptions accumulate around the vent.

-Include ______ and other pyroclastic material. -A '______' is when the hot ash mixes with snow and ice from the mountain, and forms a fast flowing river of mud.

-Composite volcanoes can stay quiet and 'dormant' for a long time, but gasses can build beneath the surface until the pressure is released in a massive eruption.

•'_____' – when magma is released in an eruption, the top of the mountain caves in forming a depression.

•This bowl can fill with water forming a lake.

•'_____' – Plate tectonics results in formation of a long narrow crack in the Earth's surface

-Basaltic lava comes out forming a 'plateau'.