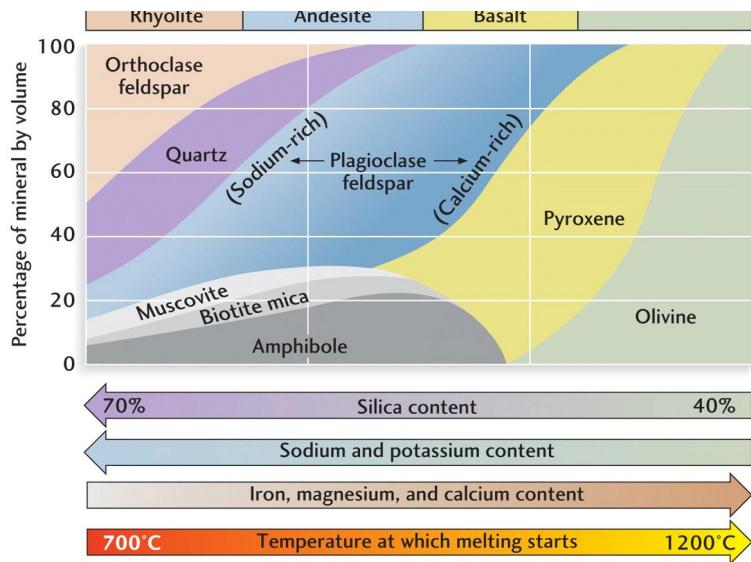


- Q. 1 An intrusive texture is the product of
- A fast cooling magma
 - A slowly cooling magma
 - A slowly cooling lava
 - A fast cooling lava

Q. 2 _____ is the extrusive version of _____. Both have the same chemical composition

- Basalt. Gabbro
- Granite. Rhyolite
- Basalt Granite
- Rhyolite. Gabbro



- Q. 3 From figure 5.4 (above), Granite is composed of the following proportions of different mineral types:
- 0%~10% plagioclase feldspar, 0%~60% pyroxene, and ~0%-100% olivine
 - ~15-20% quartz, ~10%-50% orthoclase feldspar, ~10-30% plagioclase feldspar, ~10% muscovite, ~<10% biotite, and ~10% amphibole
 - 10%~60% plagioclase feldspar, 10%~75% pyroxene, 0%~10% amphibole, 0%~15% olivine, and 5% biotite
 - None of above

Q. 4 Which type of magma is hotter?

- Felsic
- Intermediate

- C. Mafic
- D. None of above

Q5. A Sill is formed originally by

- A. A magmatic intrusion that is concordant with ("does not cut") the surrounding rocks
- B. A magmatic intrusion that is discordant with ("cuts") the surrounding rocks
- C. All of above
- D. None of above

Q6. Active volcanoes are located at

- A. Convergent margins
- B. Divergent margins
- C. Hot spots
- D. All of above

Q7. The location and ages of volcanoes within a volcanic island chain that is the product of a hot spot, (e.g., Hawaiian Island Chain) tells us about

- A. The history of the plate movement on which the island chain is located
- B. The history of hot-spot movement over which the island chain is located
- C. All of above
- D. None of above

Q8. A volcanic bomb is a type of

- A. Aa lava
- B. Pahoehoe lava
- C. Pyroclast
- D. None of above

Q9. The most dangerous product(s) of a volcanic eruption is(are)

- A. Lava
- B. Pyroclastic flows
- C. Volcanic bombs
- D. Tsunamis

Q10. A Caldera forms by

- A. the impact of a meteorite
- B. the collapse of a magma chamber after the chamber has been emptied of magma
- C. All of above
- D. None of above