Igneous Rock Quest

https://www.youtube.com/watch?v=cjyF-te4lQI

20 min Igneous Rock Overview

- 1. When new minerals form, their texture is based on what: answer is given within the first 30 seconds
 - 1.
 - 2.
 - 3.
 - 4.
 - 5.

2.	What two ways do we classify igneous rocks	and	
3.	What are five basic textures of igneous rocks?)	

- 1.
- 2.
- 3.
- 4.
- 5.

4. Slow cooling results in what type of texture?

- 5. Define aphanitic.
- 6. Ash is basically what?

7. What two elements do ultramafic/mafic rocks contain? ______and _____

8. Compared to felsic rocks, mafic rocks are ______and _____in color.

9. Are there exceptions to the above generalization?

- 10. What are the three different settings magma can form in?
 - 1.
 - 2.
 - 3.

11. How are magmas created at subduction zones?

- 12. How are magmas created at divergent boundaries?
- 13. How are magmas created at mantle plumes?

- 14. Mantle Melt = _____
- 15. Evolved Melt = _____
- 16. Where does intermediate to felsic magma occur?
- 17. Melted crust = _____
- 18. If you identify a rock as felsic, where might it have formed?
- 19. To name and identify an igneous rock, you need to know what two things?

_____ and _____

20. Put the following rocks on the Bowen's Reaction Series along with their texture. Peridotite, Andesite, Rhyolite, Basalt, Diorite, Gabbro, Scoria, Obsidian, Pumice, Granite

