**Video Review Question Set – Igneous Rocks NAME\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Watch the video and answer the following review questions.**

1. Give the definition of an igneous rock.

2. What did James Hutton study in geology?

3. What did Abraham Warner believe about his geological research?

4. What is the literal meaning of an igneous rock?

5. What is it called when magma cools underground?

6. What happens if a rock cools at the surface?

7. True or False: Rocks that are composed of iron and magnesium are Mafic.

8. What is an example of plutonic mafic rocks?

9. What is an example of an plutonic Intermediate Igneous Rock?

10. True or False: Textures can vary due to the volcanic eruptions of different rocks.

11. If a molten rock cools quickly, what happens to the rock?

12. How do rhyolites form?

13. What is a phanoritic crystal?

14. True or False: Magma can only crystalize one igneous rock at a time.

15. What information does Norman Bowen give us information about how magma crystalizes?

16. At what temperature does calcium plagioclase crystalize?

17. What is an example of at highest temperature mineral in Bowen’s reaction series? What about the lowest?

18. True or False: The lower temperature mineral in the continous series of Bowen’s reaction is calcium plagioclase.

19. What four examples are leaning towards Felsic mineral constituents?

20. What is the origin of granite?

21. What is differentiation?

22. What is the difference between magma on continents than magma on seafloor?

23. What is the plutonic equivalent of the volcanic rock Andesite?

24. What do geologists believe how magma forms containing these minerals mentioned above?

25. What creates partial melting in the mantle?

26. What are plutons and what do they do?

27. List the three ways that plutons react due to ascending plates?

28. What are xenoliths?

29. What are dikes?

30. Sills?

31. Laccolith?

32. How large can plutons be?

33. What is another word for plutons?

34. What are plutonic rocks composed of?

35. What is an example of two types of ancient igneous rocks?

36. What planet have researchers found that orthosites are near?