Guided Notes for Section 19.1 (Forces within Earth)

1) Earthquakes are __________________________
____________________ caused by _______________________
______________________.

2) Most earthquakes occur when_____________________
____________________________. Fractures form when stress exceeds
____________________________
__________.

3) Define and describe the 3 kinds of stress that act on the Earth's rocks:
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4) The deformation of materials in response to stress is called __________.

5) Elastic strain causes ________________________, and can be demonstrated by _________________________.
   Elastic strain is proportional to _________________, and thus, ______
   ________________________________.

6) When stress exceeds a certain value, a material undergoes ___________
   __________________________. This type of strain produces ___________
   __________________________, which means that
   __________________________________.
7) Most rocks are brittle ____________________________
                                             ____________________________, but become ductile ____________________________
                                             ____________________________.

8) Rocks that make up Earth's crust fail when ____________________________
                                             ____________________________, or ____________________________
                                             ____________________________.

9) Define and describe fault and fault plane.

10) Use a concept map to define, describe, and draw a diagram of the 3 types of faults. Include the direction of movement in your diagram.
11) Most earthquakes are caused by ____________________________
________________________. Irregular surfaces in rocks can
________________________. As stress continues to
build in these rocks, ____________________________
________________________.

12) The vibrations of the ground during an earthquake are called _________
______________________. Every earthquake generates ____________________________
________________________.

13) Use a concept map to define and describe the 3 types of seismic waves.
Include a diagram of each wave and state where they travel.

14) Use the glossary to define focus and epicenter.