

Examining P- and S-waves can reveal a great deal about the interior of the earth. In fact, much of what we understand about the structure of the earth comes from the analysis of earthquake energy.

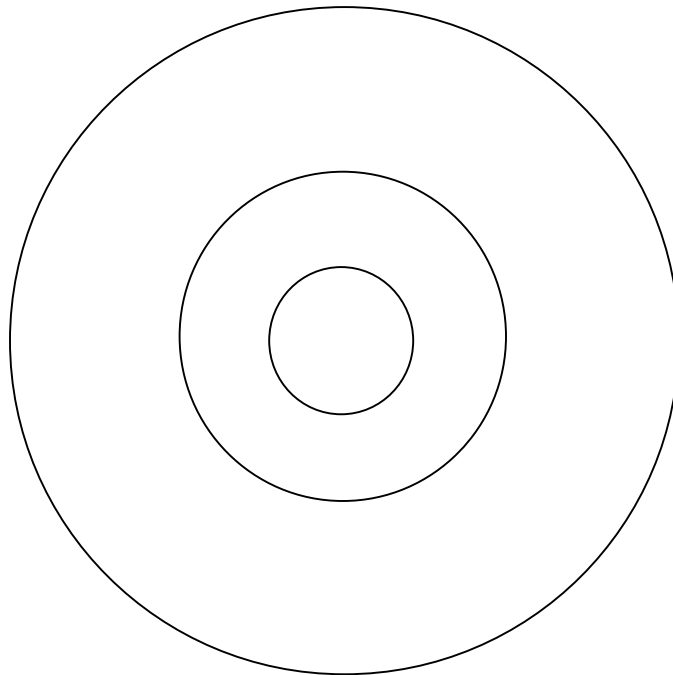
Watch the Seismic Waves demonstration for the 1994 Northridge, CA earthquake. Identify 3 things that happen to the P-wave as it passes through the earth:

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Using the picture below, diagram the path of the P-waves through the earth, including the 3 results you observed and recorded above.



Now observe the S-waves generated by the initial earthquake. Make 3 observations about these waves:

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Now, draw the path of S-waves, based on your observations above, on the diagram.

Finally, write in the approximate depth of the layers of earth's interior using Page 10 of the ESRT's.