

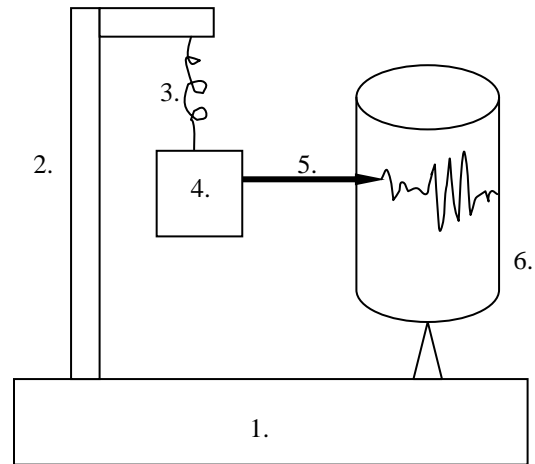
# Seismograph

A device used to measure the strength of earthquake waves.

## Parts of the Seismograph

1. Bedrock (solid rock in the crust)
2. Frame (holds up the spring/weight)
3. Spring (shock absorber)
4. Weight (holds the pen)
5. Pen (writes on the paper)
6. Rotating Drum, with Paper

Please note that the frame and drum have been securely attached to the bedrock, so that seismic waves will be carried up into the seismograph.



When an earthquake occurs...

- a. The ground shakes, which causes the frame and drum to move up and down.
- b. The spring absorbs the shock of the seismic waves. Therefore, the weight does not move during the earthquake. (Remember that the weight has inertia!)
- c. As the drum moves up and down, the pen writes on the paper.