(robot dialog)

(illustrate gnomatic strata analyzer and its amazing features)

This is the Gnomatic Strata Analyzer. A bouncy contraption capable of transmogrifying information from rock layers found in the deep underbelly of Earth.

But before we have a crack at it, let’s first review the study of rock layers.

Stratigraphy

A study in geology that deals with the order and position of rock layers (strata).

(illustrate)

Each layer of strata can give us information about the earth’s past. These are categorized in geological time scale.

(illustrate)

(next panel, show Nicolas Steno)

Laws of Stratigraphy

1. Superposition – younger layers of rock sit atop older rocks. (illustrate – mention relative age)
2. Original Horizontality – sedimentary rocks were originally deposited horizontally by weathering and erosions. Layers that are tilted have since been altered by external force.
3. Cross-cutting relationships – A layer of rock that cuts across other layers is considered to be younger. An example of this is an intrusion of magma.
4. Lateral continuity – Layers of rock are continuous until they are blocked by a larger solid body or broken up by external force.

Now that you have learned the basis of stratigraphy, it’s time to take the Gnomatic Strata Analyzer for a spin!

Go, go, geology, go! (Excited)