(robot dialog)

(illustrate gnomatic strata analyzer and its amazing features)

Greetings and salutations! Thank you for choosing Gnomatic Strata Analyzer as your guidance for exploring the history of planet Earth.

The Gnomatic Strata Analyzer is capable of transmogrifying information about rock layers deep in the underbelly of Earth. Truly a magnificent device!

But first, let’s 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 layer of rocks sits atop of older rocks. (illustrate – mention relative age)
2. Original Horizontality – sedimentary rocks were originally deposited horizontally through weathering and erosions. Layers that are tilted have since been altered by external force.
3. Cross-cutting relationships – A layer of rocks that cut across other layers is considered to be younger. An example of this is an intrusion of magma forming into igneous rocks.
4. Lateral continuity – Layers of rock are continuous until they are blocked by a larger solid body, or until they are acted upon by erosions or when the Earth’s plates move.

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)