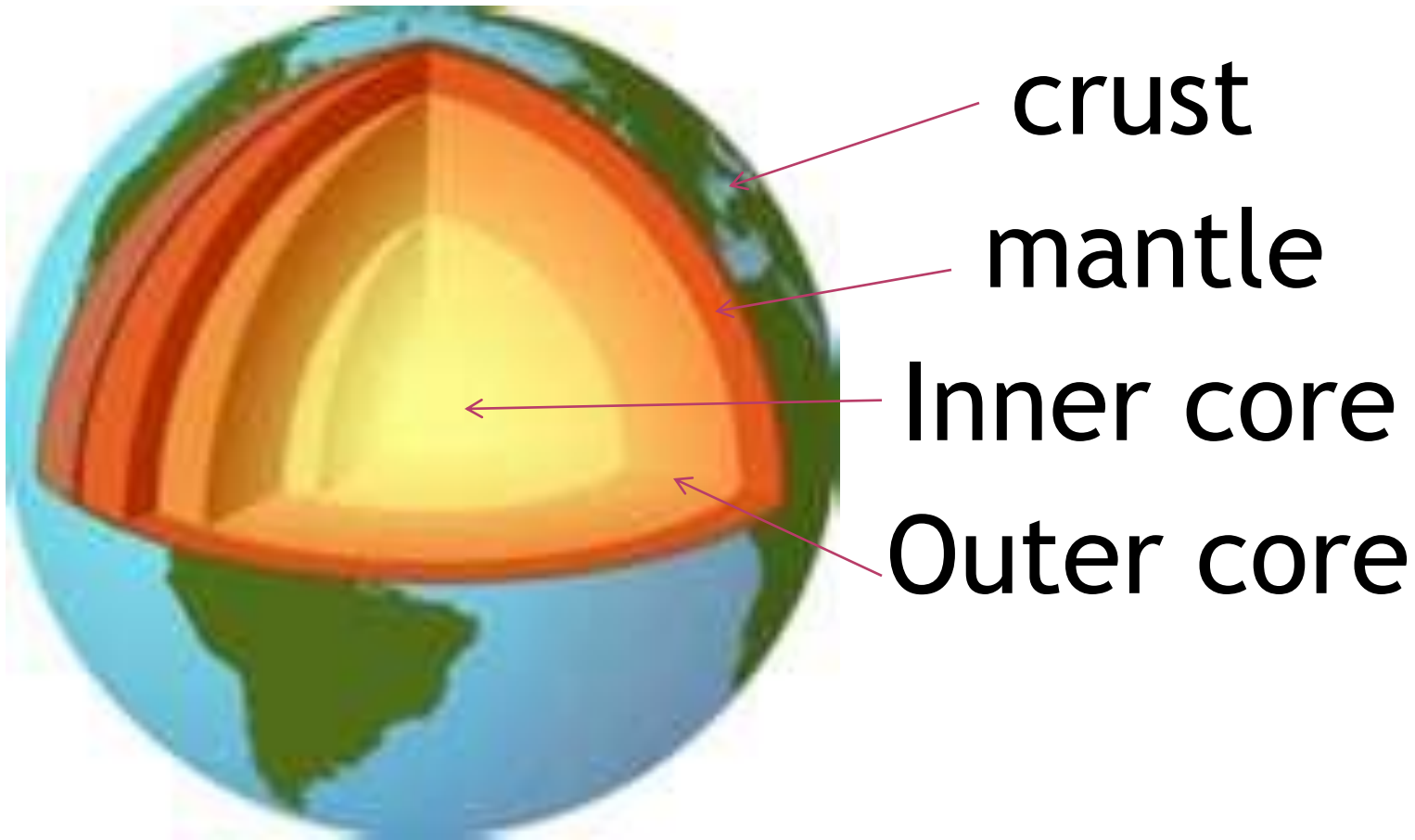


**GRADE 7  
SCIENCE  
UNIT 4: THE  
EARTH'S CRUST**

Structure of the Earth

# A MODEL OF THE EARTH



# 1. INNER CORE

- Deepest and hottest layer of Earth
- Made mostly of iron and nickel
- It is solid

## 2. OUTER CORE

- It is liquid
- Made of liquid iron and nickel
- Very hot

### 3. MANTLE

- Largest layer
- Upper part is made of solid rock while the lower 10% is molten. This gives the mantle a “plastic-like” appearance.

## 4. CRUST

- Found outside the Earth
- A thin layer of solid rock
- Where valuable rocks and minerals are found

◎ Depth varies from 5-70 km

It is thinner under the oceans (**oceanic crust**) and thicker under the continents (**continental crust**).

- The oceanic crust is mostly **basalt** while the continental crust is mostly **granite**.
- The crust is broken into pieces called **plates** which float on the mantle and are always moving.



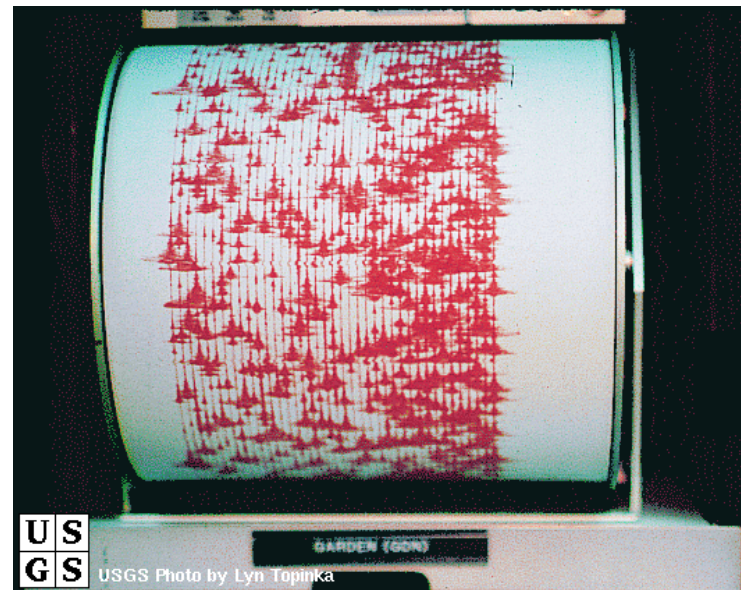
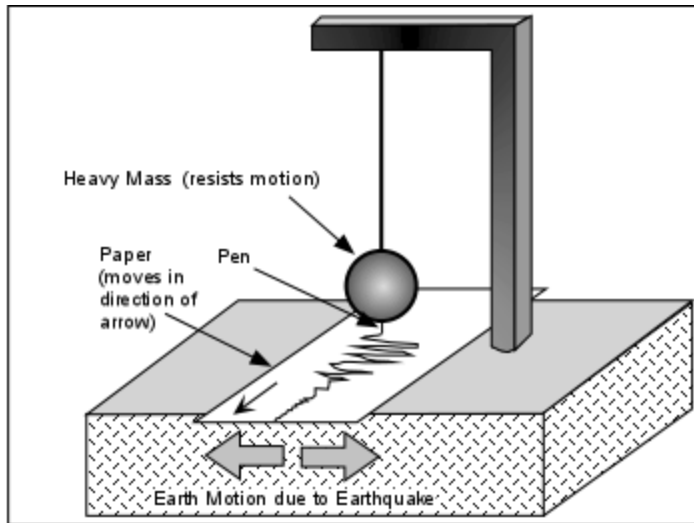
# HOW DO WE KNOW?

Technologies that are  
used to gather info...

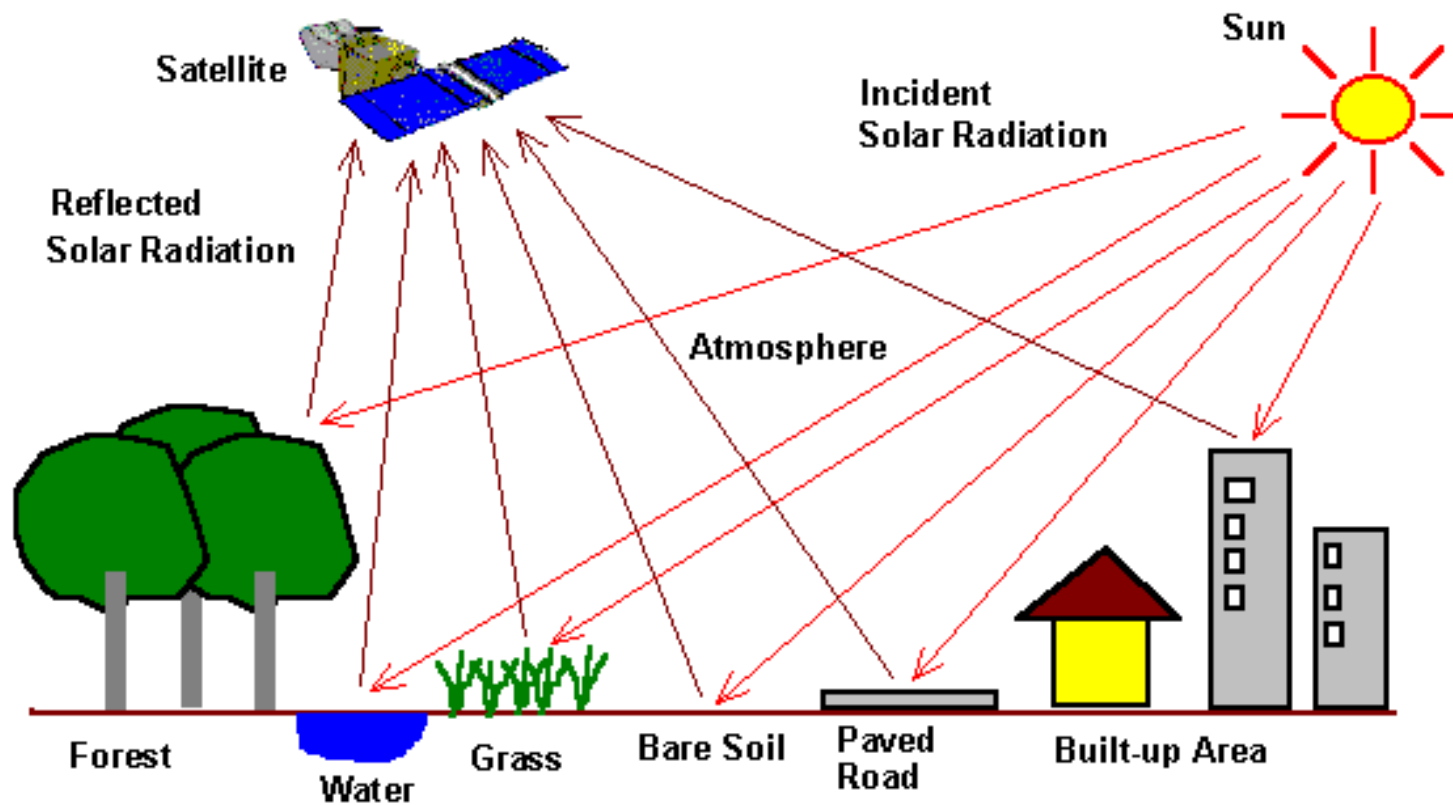
◎ Satellite Imaging



# Seismographs



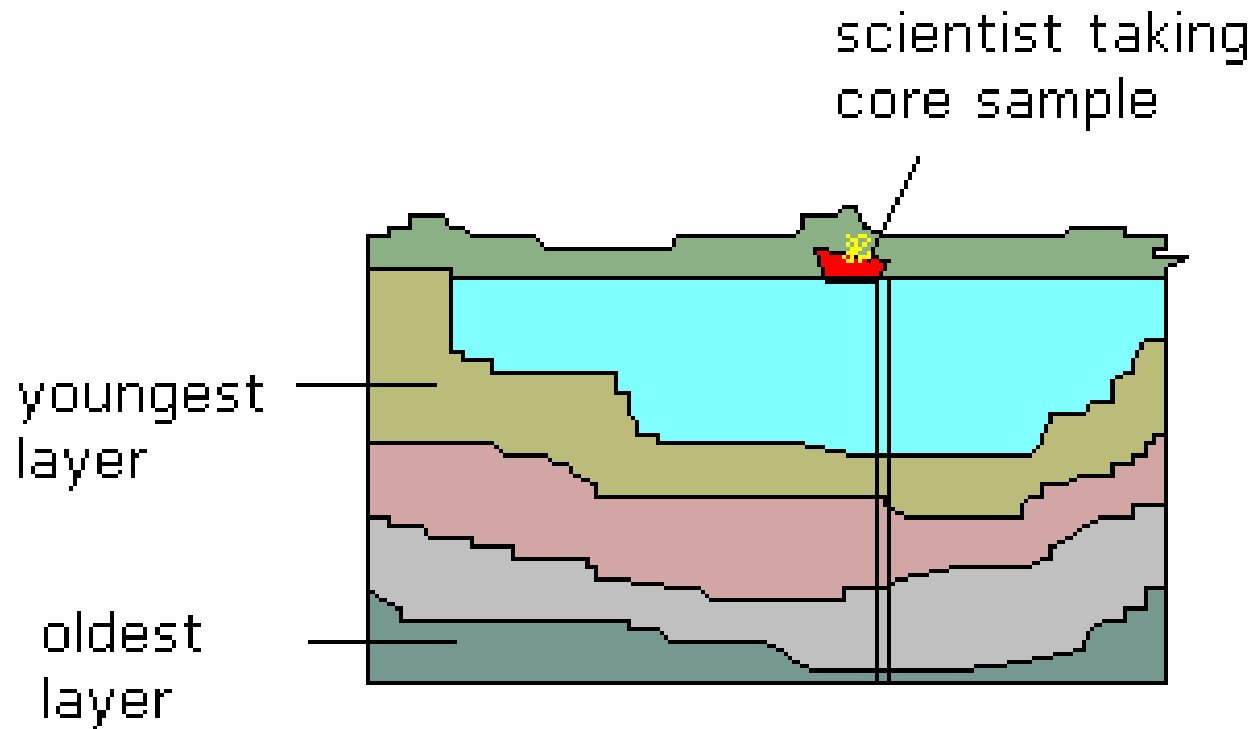
# Remote sensing



# ○ Magnetometers



# Core Sampling



Layers increase in age from top to bottom.