

Mass Movements

Rocks are broken down and moved...

- What is this called?

- Weathering
- Erosion

- **Mass Movement:**

- **Transfer** of large quantity of **rock & soil** **downslope** due to **GRAVITY**



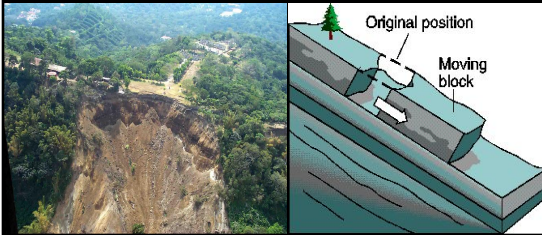
Mass Movements

- Based on **WHAT** is moving and **HOW** it moves



SLIDES

- Moves as **block** of Earth material



FLOWS

- Involves **mixing** of particles **within** moving mass



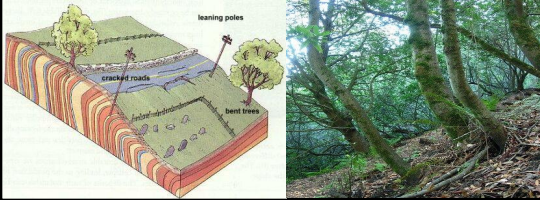
FALLS

- **Free fall** of Earth material



CREEPS

- **Slow** flow of **loose, weathered** material
- Causes **tilting** of various objects on **slope**



SLUMPS

- **Downward** movement of **block** of material along **curved** surface



VARIABLES

- **Material's Weight:**
 - **Heavier** = **Resists** movement better
- **Resistance to Flow:**
 - **Friction** between **material** & **slope** helps to resist **flow** or **slide**

VARIABLES

- **Triggers:**
 - **Earthquakes**
 - Flash **floods**
 - Removal of **vegetation**
- **Water:**
 - **Holds** materials or adds **moisture**
 - Makes it **easier** for material to **slide**