

Weathering

Weathering products

- Regolith

- soil

Weathering, mass wasting, erosion

- 2 processes of breakdown

- erosion

- mass wasting

- Controlling factors

- 1. Rate of uplift

- 2. Hardness of surface materials

- 3. Climate

- ARID

- Humid

Physical weathering types

1) fracturing

- joint

Block separation

Shattering

2) Frost action

talus slopes

3) salt crystal growth

4) Plant root wedging

5) Temperature Change

6) Unloading

Phys and chem

- the beginning of breakdown - phys

- greater surface area exposed

Chemical Weathering

Agents of chem weathering

Oxidation

- what happens?

- rusting

Hydrolysis

Carbonation

- what happens?

- carbonic acid dissolves limestone

Karst topography

Location of karst

Caverns

Sinkholes

Knobs

Mass wasting

Role of slopes

- Angle of repose

- Greater slope=higher prob.

Role of water

Role of material

Classification

- Geomorphic threshold

- fall

- slide

- Flow

- creep