

Warm-up

1. Name 4 Rock Textures.
2. Explain what is wrong with this sentence: “Rocks with a fine-grain texture have Large crystals because they form so quickly.”



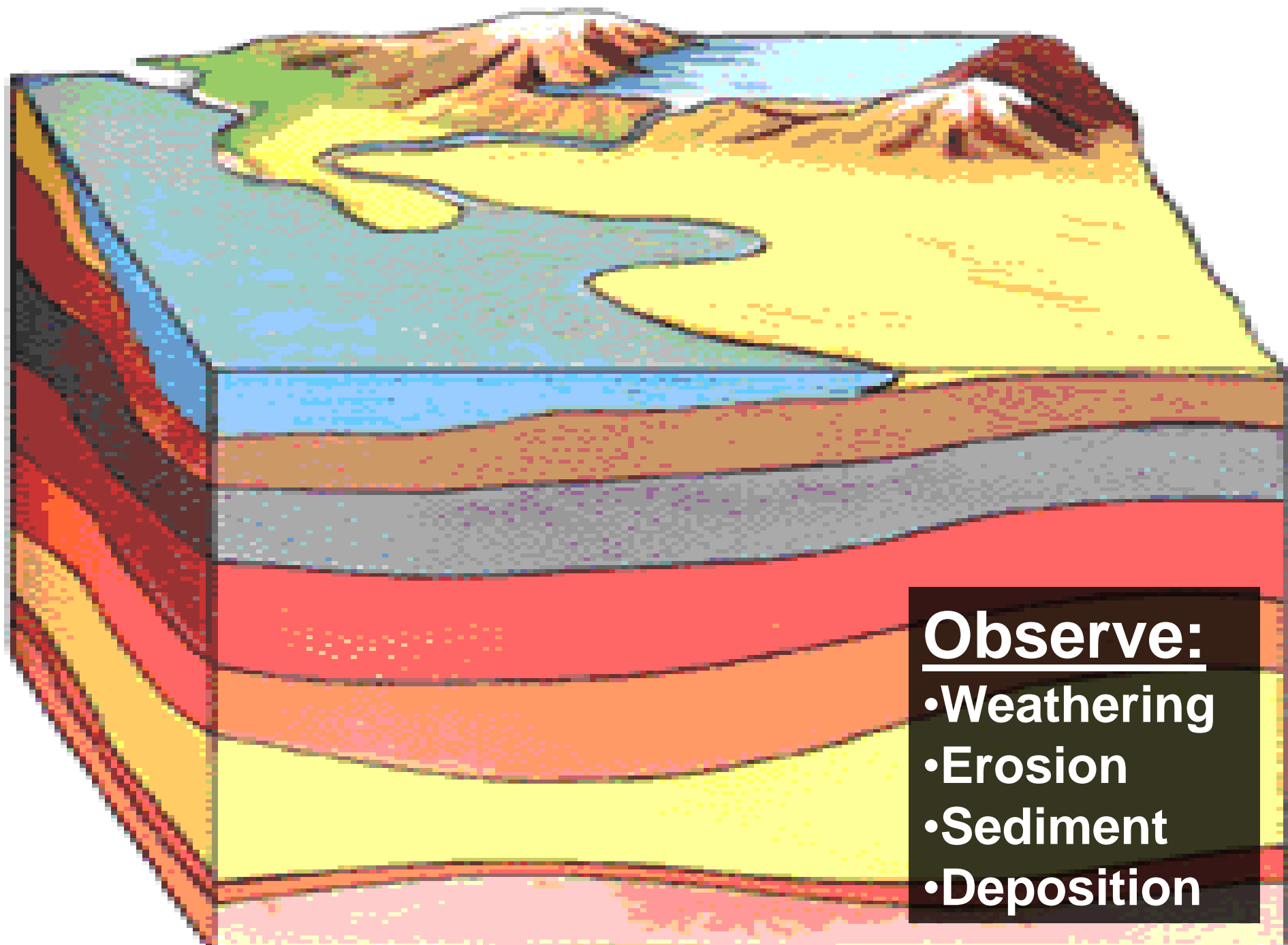
“Sedimentary & Metamorphic”

3.3 & 3.4



Deposition:

- Deposit = “to leave”
- Sediments are deposited **according to size.**
- **Smaller sediments** travel **longer distances**



Observe:
•Weathering
•Erosion
•Sediment
•Deposition

Creating Sedimentary Rock

A yellow road roller is shown in the background, compacting a road surface. The roller is moving from left to right, and its large rear wheels are visible. The scene is outdoors, with a road and some greenery in the background.

1. **Compaction** = squeezing sediments

- Due to weight of layers

2. **Cementation** = sediments stick together.

- **dissolved minerals** are deposited in the tiny spaces among the sediments.

What does this show?...



Classification of Sedimentary Rocks

1. *Clastic:*

- Bits of rock/mineral

2. *Chemical:*

- dissolved minerals **precipitate** (fall) from **water solutions**

3. *Biochemical:*

- Smushed **dead organisms.**



Which type is this?...

COAL

PEAT

(Partially altered plant material; very smoky when burned, low energy)



Burial

LIGNITE

(Soft, brown coal; moderate energy)



Greater burial

BITUMINOUS

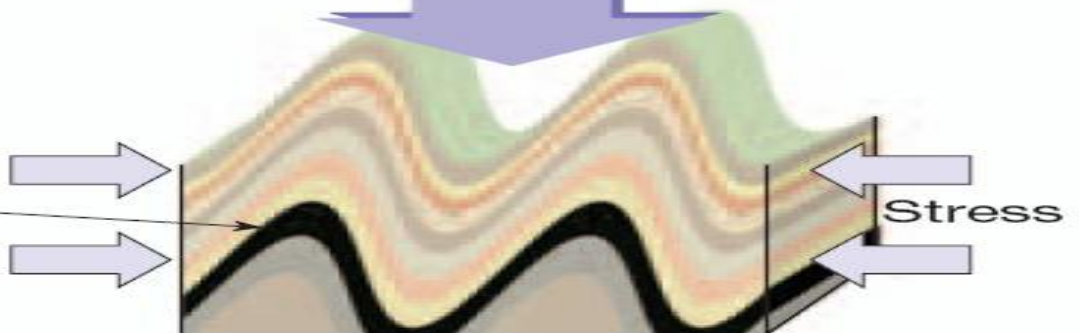
(Soft; black coal; major coal used in power generation and industry; high energy)



METAMORPHISM

ANTHRACITE

(Hard, black coal; used in industry; high energy)



History & Sedimentary

- Each layer of sedimentary rocks records a period of sedimentation
- **Youngest = top** ↑
- **Oldest = bottom** ↓

Creation:

Of Metamorphic!

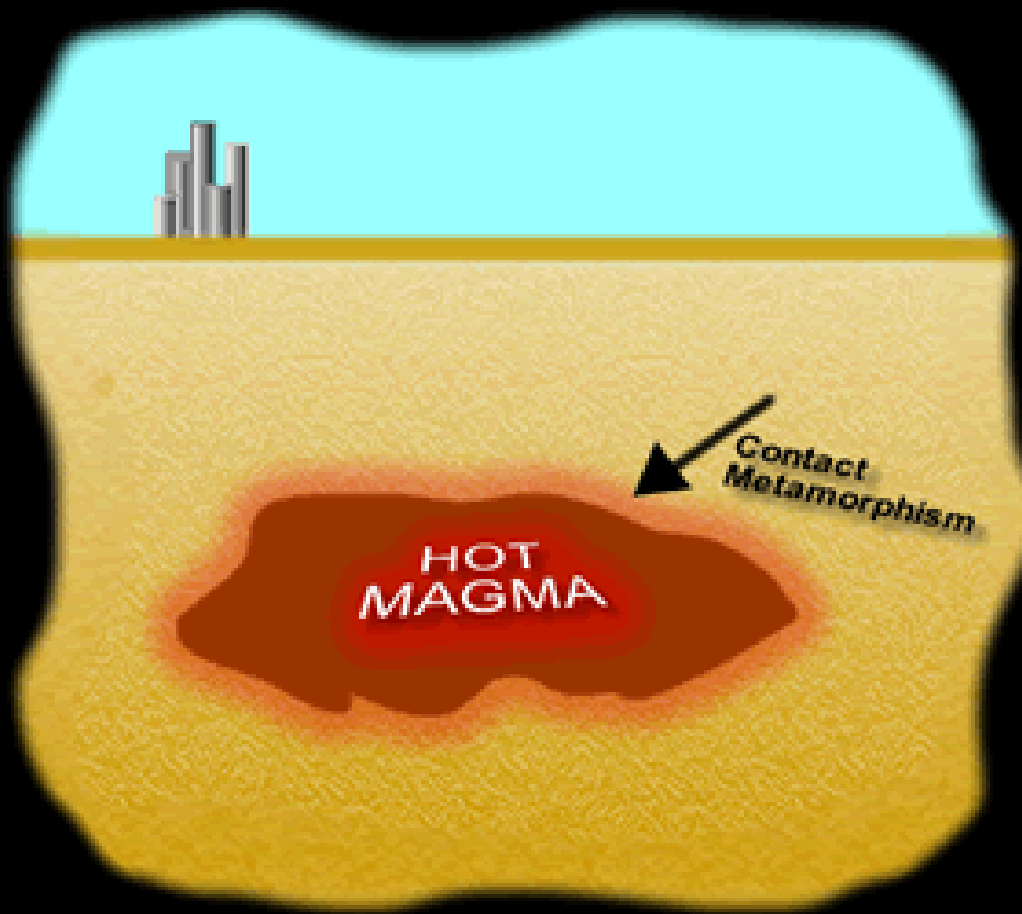
1. Contact Metamorphism –

–magma changes rock

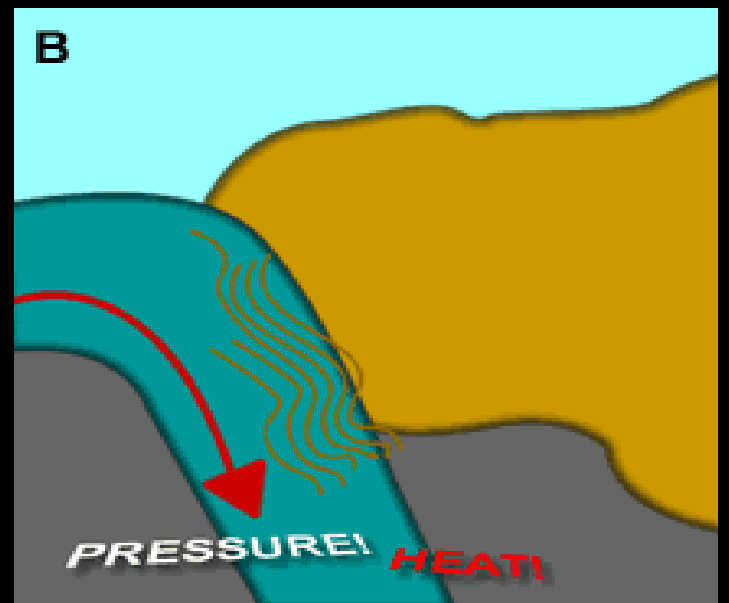
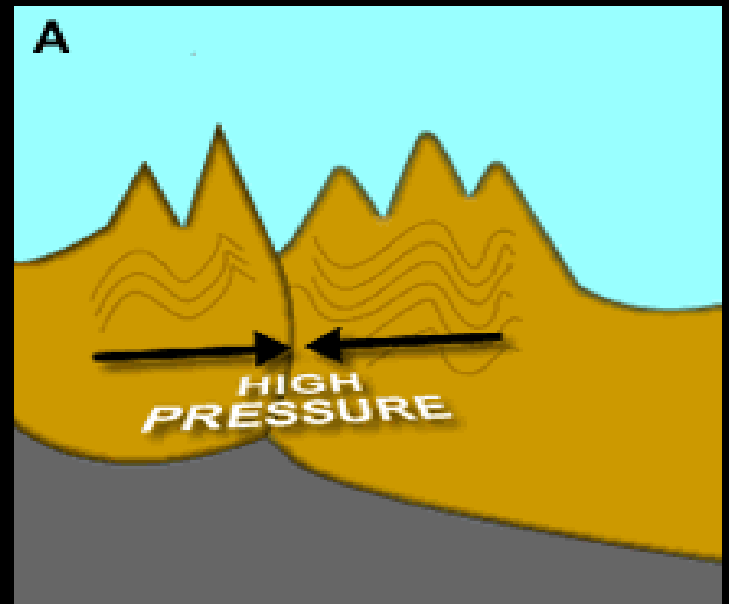
2. Regional Metamorphism

– Heat & Pressure

– Mountain building

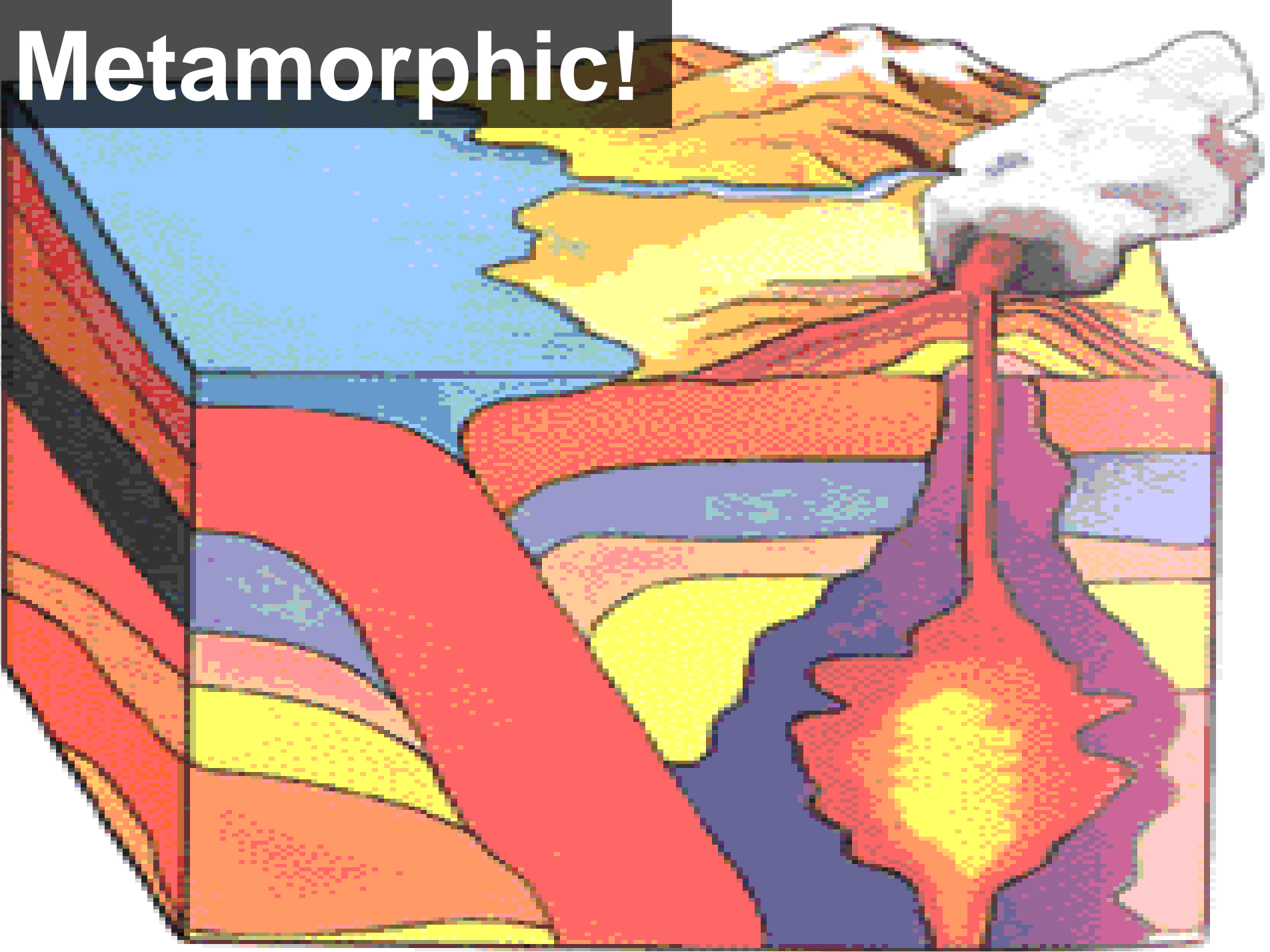


Contact
Metamorphism



Regional Metamorphism

Metamorphic!



Classification of Metamorphic Rocks

Foliated:

- Banded



Pamela Gore, 1996

Nonfoliated:

- No Bands



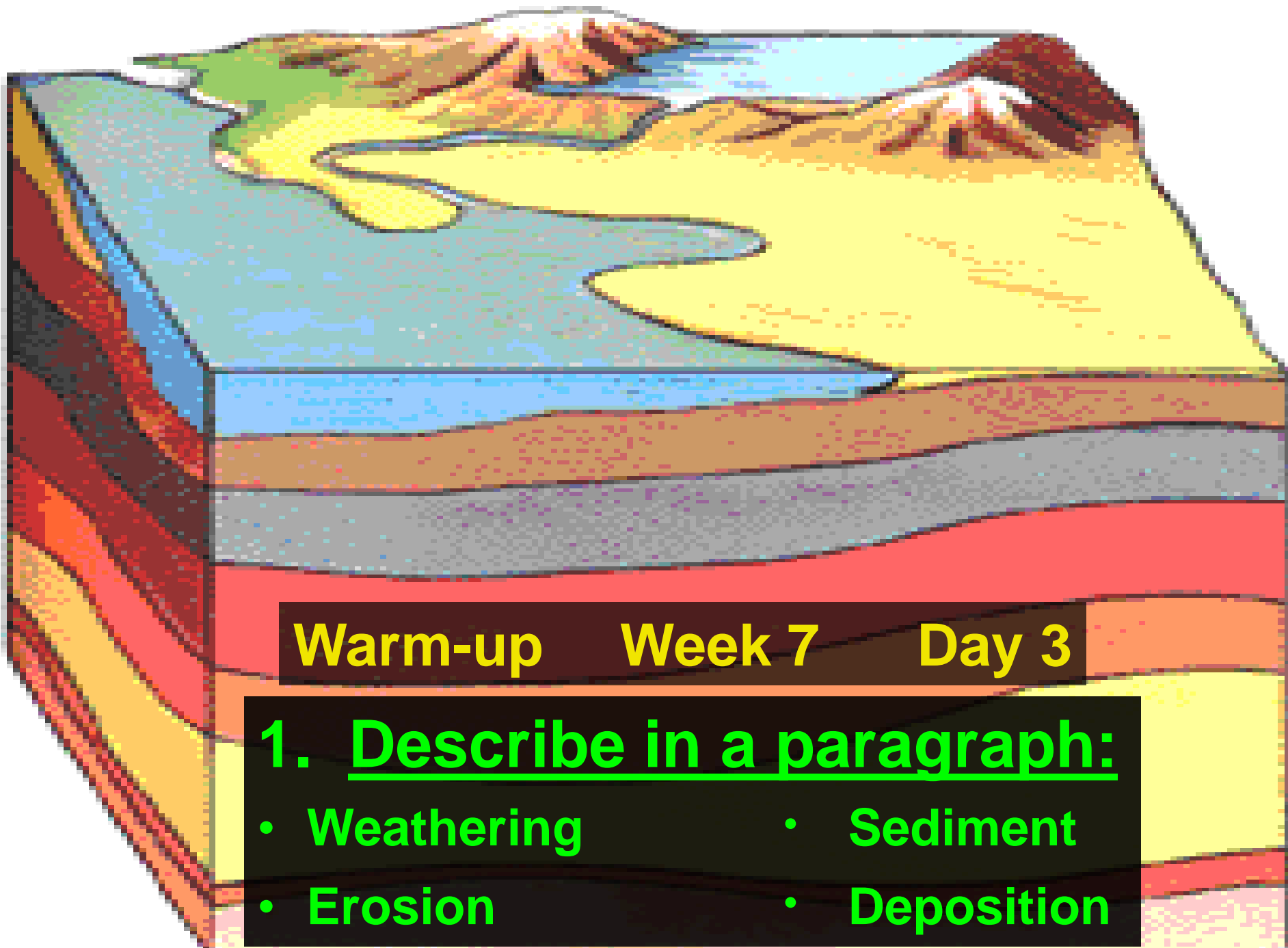
Pamela Gore, 1996

HW:

- Read 3.4 (pg. 80-84)
- Do SA: #1-6 (pg. 84)

Snake Videos

- Snake Vs. Baby Hippo
- <http://www.youtube.com/watch?v=SJCM-sdfB0w>
- Snake Vs. Cave Dude
- http://www.youtube.com/watch?v=K-h5G_mP6iQ
- Rabbit Vs. Snake
- http://www.youtube.com/watch?v=_MHsWtlog4Q



Warm-up Week 7 Day 3

1. Describe in a paragraph:

- **Weathering**
- **Sediment**
- **Erosion**
- **Deposition**

Assignment:

OBJECTIVE:

- Get your quiz results
- Get a copy of the quiz
- Correct missed questions

INCLUDE:

1. **Number.**
 2. **Question** (written-out).
 3. **Complete sentence from book.**
 4. **Page number from book.**
- **For EVERY missed problem**
 - **Attach your quiz score sheet to your corrections**

