



PHYSICAL WEATHERING

YEAR 8_O

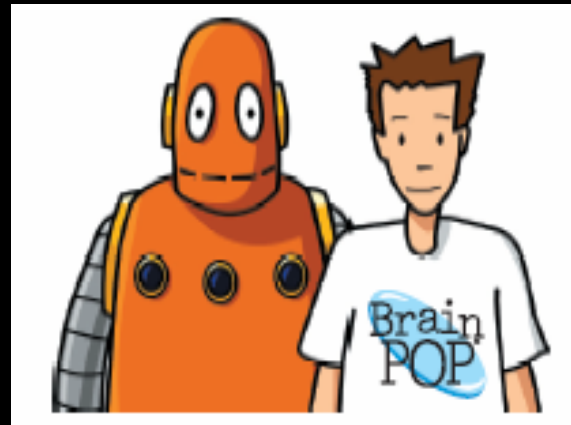
1st May 2007

Entry activity

- Write into your book the following question.

What is physical weathering?

- Listen to TIM & MOBY and pay attention to know the answer.



Physical weathering

- **Physical weathering** is a form of weathering responsible for the mechanical breakdown of rocks but involving no chemical change.
- **Processes involved include:**
 - **Freeze thaw-** the alternate freezing and melting of ice in rock cracks or pores.
 - **Exfoliation-** the alternate expansion and contraction of rocks in response to extreme changes in temperature.

Physical Weathering

- Physical weathering is caused by
 - Lighting
 - Wind
 - Expansion
 - Contraction
 - Freezing of water- also called freeze thaw



Practical Investigation

- **Title:** Physical weathering investigation
- **Aim:** is to investigate Physical weathering
- **Method:** heating a rock using a Bunsen burner and then cooling with water.

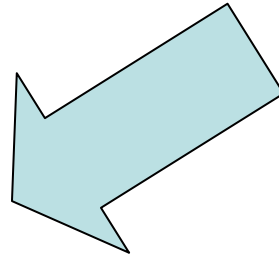
Results Table



Number of times heated and cooled	ROCK 1 Observation	ROCK 2 Observation	ROCK 3 Observation
1			
2			

Conclusion

- From this experiment I found that when heating and cooling the.....



What do you know about PHYSICAL WEATHERING?

I CAN'T
STOP
THINKING!!



What do you really know...?

1 - The breaking down of rock rocks into smaller bits is called...

A – erosion

B – transport

C – weathering



2 - In the winter at low temperatures, water collects in cracks and ...

A – freezes

B – melts

C – the temperature increases



What do you really know...?

3 - When water freezes it _____ splitting the rock into smaller fragments.

A – contracts

B – expands

C – exfoliate



4 - Rocks because _____ they expand and on cooling they _____

A – cold, contract

B – hot, contract

C - hot, expand

