

CALCIUM CYCLE DIAGNOSTIC QUESTION CLUSTER

05.18.10

Diagnostic Question Cluster Project Michigan State University

1. Which of the following contains most of the calcium in the load of rivers

- dissolved load
- suspended load
- bedload

2. $\text{CaCO}_3 + \text{silica} + \text{clay} \rightarrow \text{CO}_2 + \text{H}_2\text{O} + \text{Ca-silicate}$

The chemical equation above depicts

- weathering
- metamorphism
- melting

3. The increase in CO_2 in the atmosphere is a danger to coral reefs because

- coral do not thrive in warm water
- organisms that build reefs can be poisoned by high levels of CO_2
- carbon dioxide, when dissolved in seawater, increases the potential for calcium carbonate to dissolve

4. Complete the box and arrow diagram. Identify the location of calcium in compounds and /or solutions, the reservoir, and the process that moves or changes the calcium.

