Lesson 4

ANSWER KEYS

Figure 2 & 3

Granite Mountain

Figure 2 Processes in the rock cycle change the granite in Granite Mountain.

SEP Evidence Circle the words that best complete the sentences.

The (leaves roots) of the trees on the mountain cause (weathering erosion) of the granite. (Erosion) Deposition) by streams transports sediment away.

Reason Quantitatively

How long will it most likely take for processes in the rock cycle to change most of Granite Mountain into sediment? Check the box next to the correct answer.

□ less than 1 million years
 □ 1 million years
 ☑ 10 million years or more

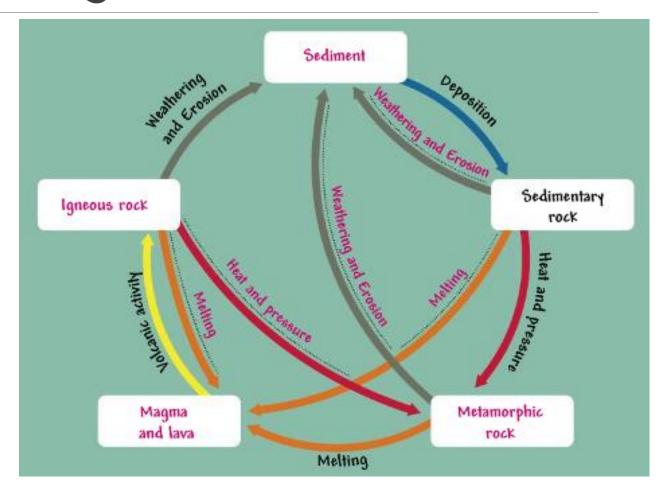
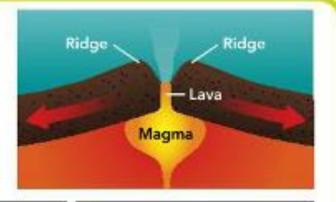


Figure 4

Modeling the Cycling of Rock Material

Figure 4 New rock forms from erupting lava where two plates move apart on the ocean floor.

SEP Develop Models Complete the diagram to model how rock material might cycle from lava to sedimentary rock. Draw and label three more possible events in this pattern of change in the rock cycle.



Student diagram might show uplift and mountain building. Student diagram might show weathering and erosion of sediment. Student diagram
might show deposition,
compaction, and
cementation to form
sedimentary rock.