

**Section: Weathering**

How do you think potholes form in paved roads? Write a few sentences that describe how water contributes to the formation of potholes. Illustrate how cycles of freezing and thawing cause potholes to grow.

Record your answers in your **science journal**.

**Section: Rates of Weathering**

Imagine that you are in a sand castle-building competition at the beach. Describe a variety of ways to protect your castle against the weathering effects of the wind and waves. Which of your inventions might be built on a large scale to help actual costal communities? Are there any potential dangers to the environment that could be caused by such protective devices?

Write and illustrate your answers in your **science journal**.