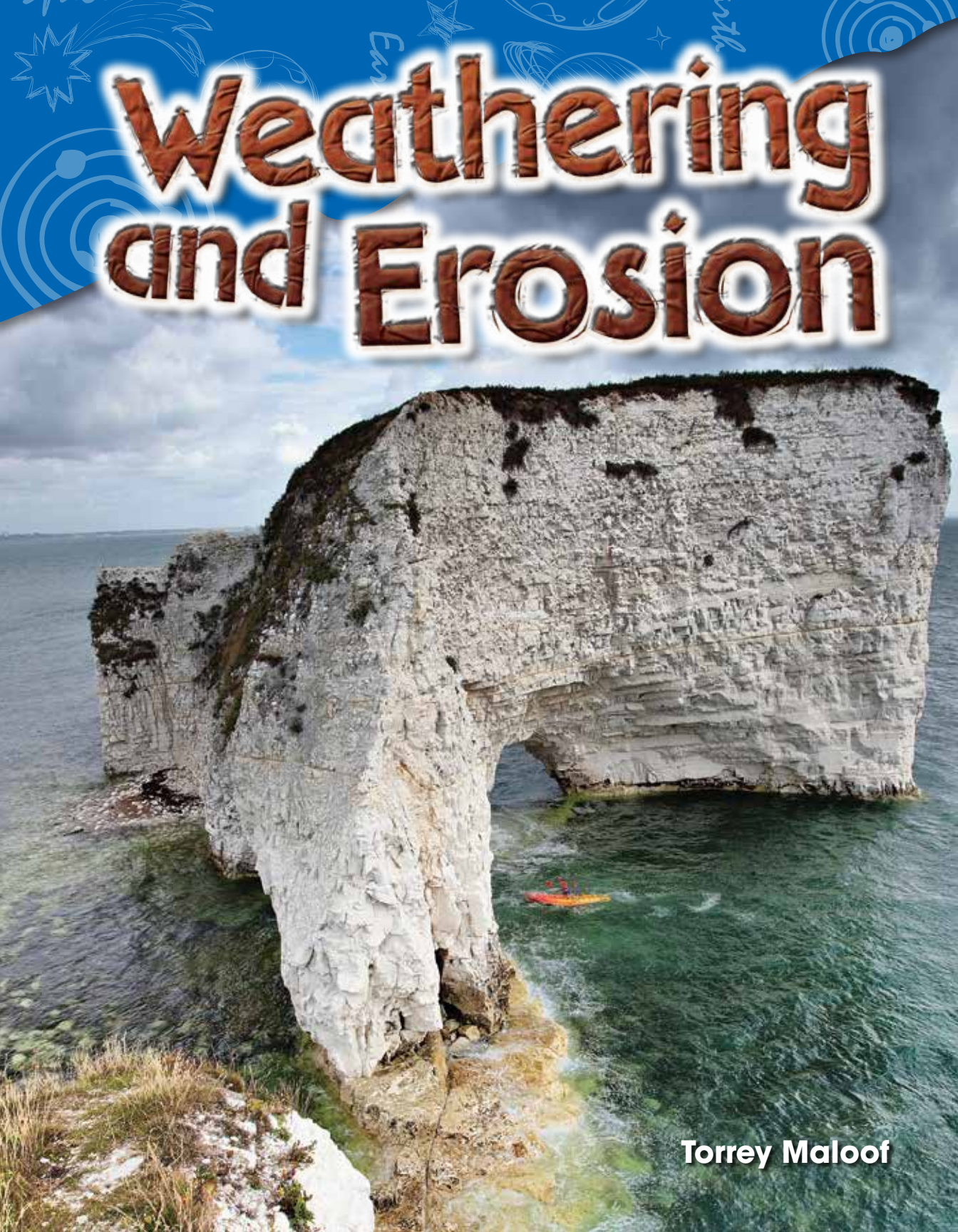
Weathering and Erosion



Torrey Maloof

For teachers' inspection ONLY

Table of Contents

Ever-Changing Earth 4

Wind, Water, and More 6

People Play a Part 22

Seeing Is Believing 26

Let's Do Science! 28

Glossary 30

Index 31

Your Turn! 32



For teachers' Inspection ONLY

Ever-Changing Earth

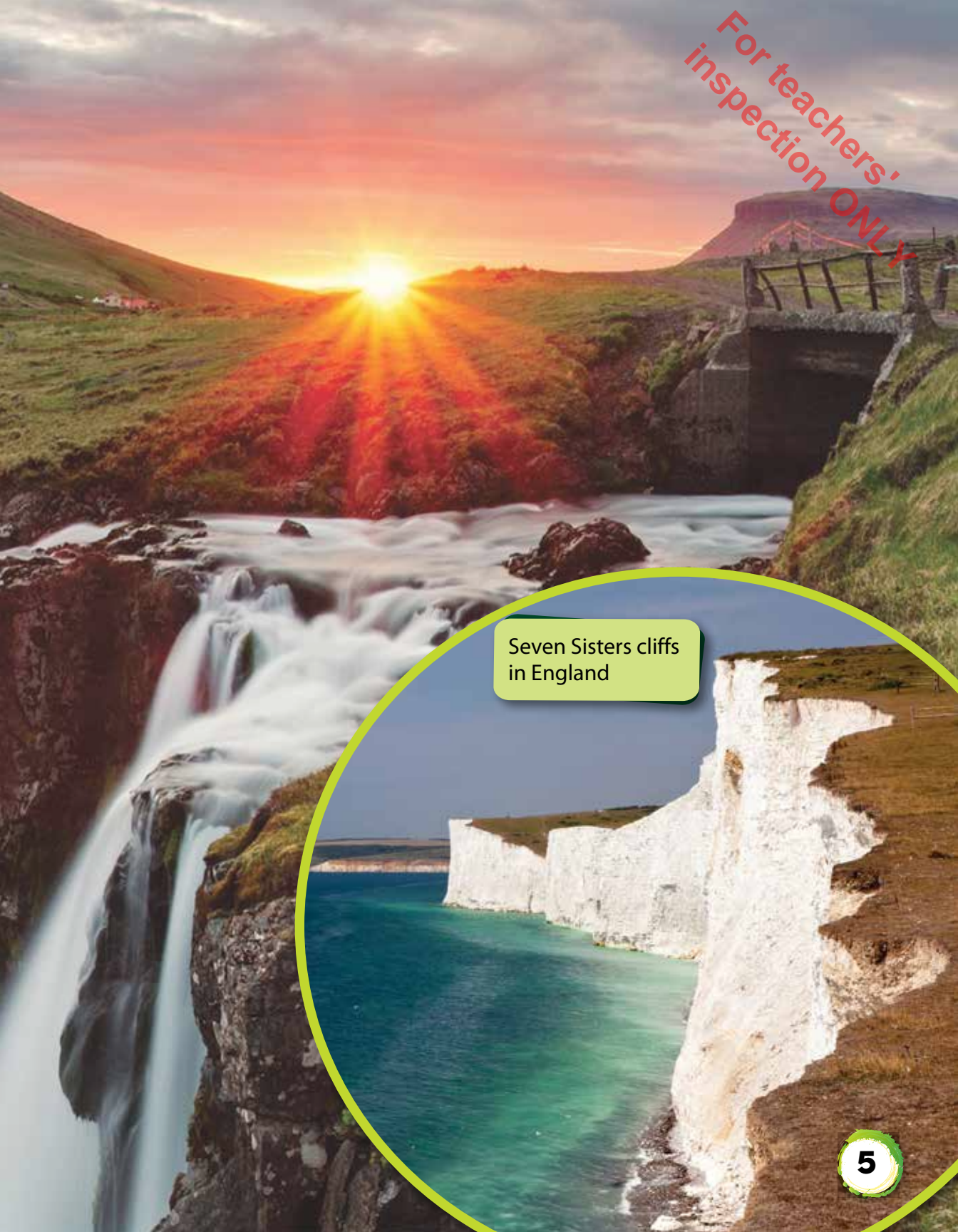
The shape and look of Earth's surface changes over time. It never stops changing. Rivers bend. Shorelines wear away. **Valleys** grow deeper. **Canyons** grow wider. Mountains break down.

These changes can be caused by the blowing wind. Or they can be the result of running water. Ice can cause these changes, too. So can the sun's rays. Even people play a part. Earth's surface has changed a lot over the years and continues to do so!



Monument Valley in Colorado

For teachers' inspection ONLY



Seven Sisters cliffs in England

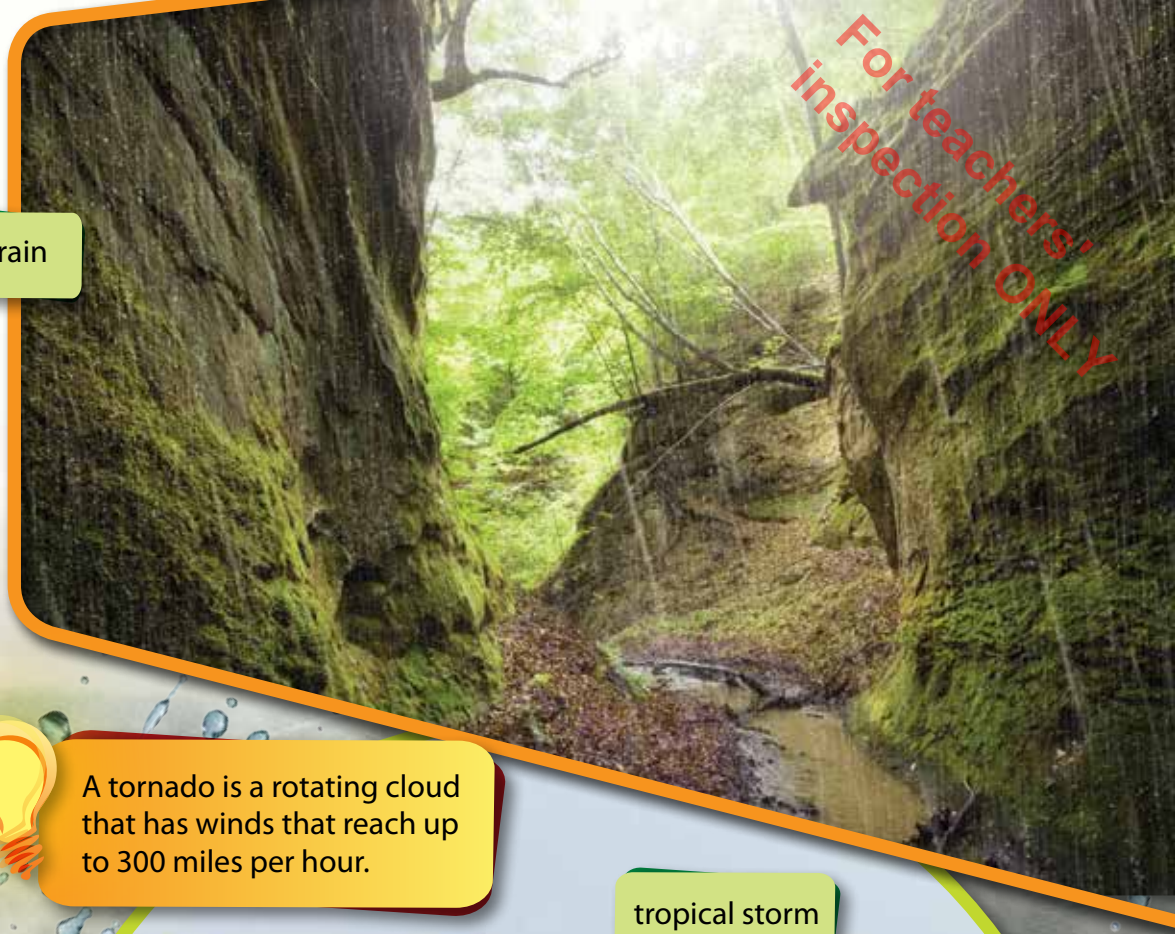
For teachers' inspection ONLY

Wind, Water, and More

Imagine a fierce storm. Rain pours. Winds blow wildly. What do you think the rain and wind do to Earth's surface? They change it! The wind can loosen small bits of dirt and dust. Drip by drip, the rain can wear down a mountain. This process is called **weathering**.

snowstorm

For teachers' inspection ONLY



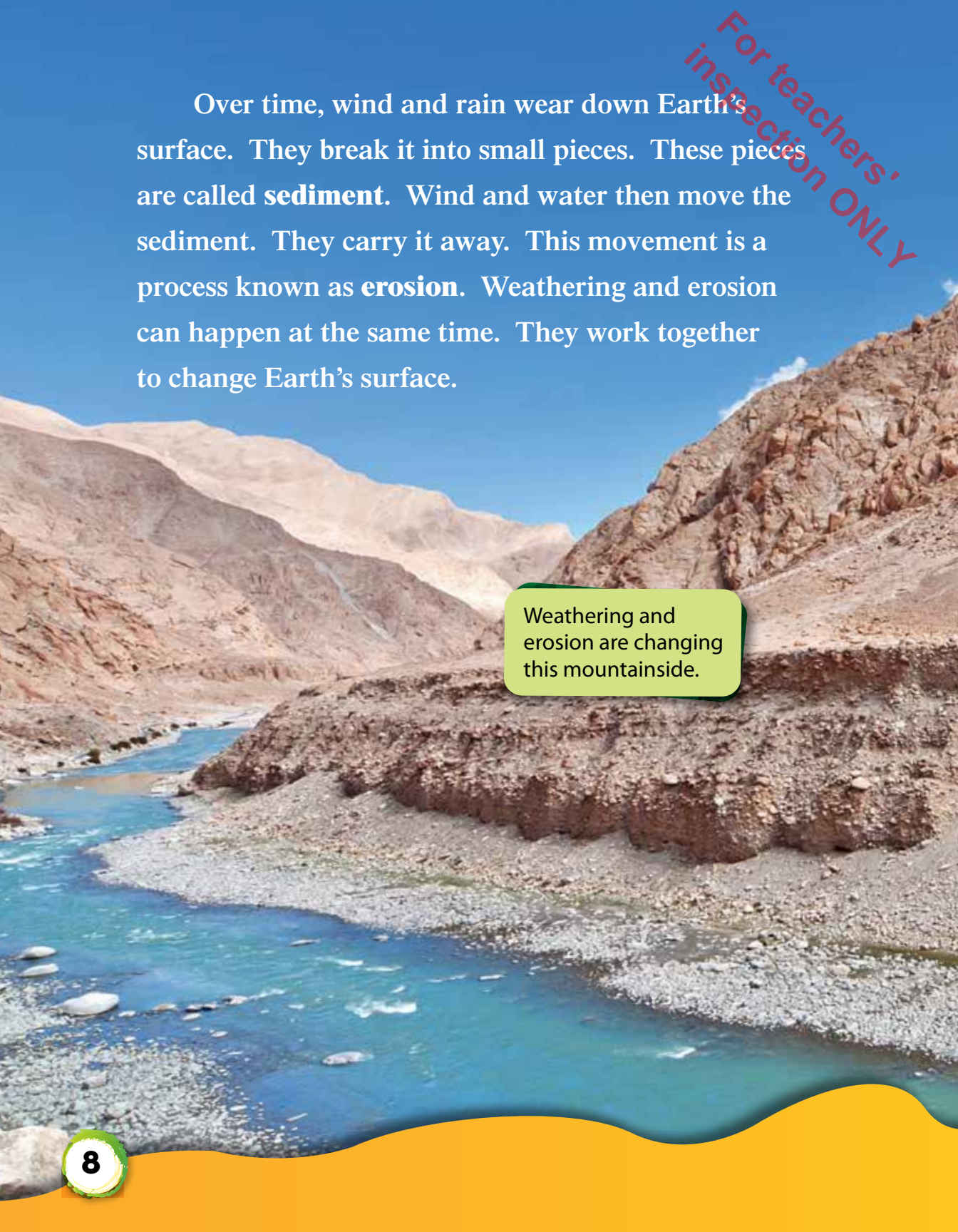
rain

A tornado is a rotating cloud that has winds that reach up to 300 miles per hour.

tropical storm

For teachers' inspection ONLY

Over time, wind and rain wear down Earth's surface. They break it into small pieces. These pieces are called **sediment**. Wind and water then move the sediment. They carry it away. This movement is a process known as **erosion**. Weathering and erosion can happen at the same time. They work together to change Earth's surface.



Weathering and erosion are changing this mountainside.

For teachers' inspection ONLY

Small rocks, such as these, are easily carried away by this river.

For teachers' inspection ONLY

Let's Do Science!

What happens when land erodes? See for yourself!

What to Get

- ❍ cardboard
- ❍ dirt
- ❍ drinking straw, cut in half
- ❍ foam cup
- ❍ modeling clay
- ❍ sharp pencil
- ❍ water

