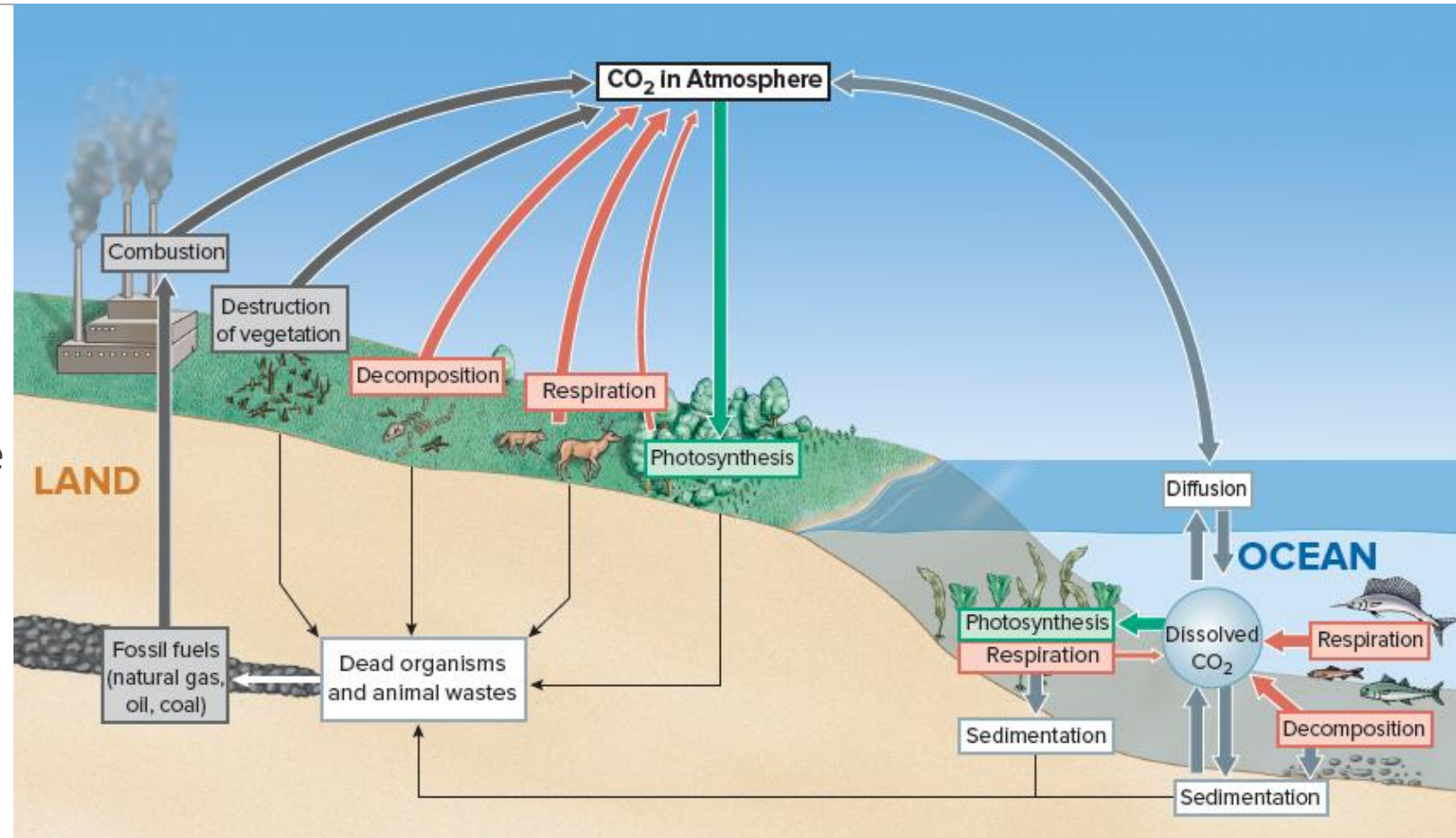


Carbon Dioxide and the Ocean Introduction

Consider the carbon cycle. What will happen to carbon dioxide levels in the ocean if combustion and fossil fuel use increases?

How is carbon dioxide used in the marine setting?



Carbon Dioxide and the Ocean

Guided Practice

Each group will receive four articles:

- Cranking up the volume
- Ocean acidification poses little threat to whales' hearing: study
- An Unexpected Side Effect to Ocean Acidity – Whales Will Call 70 Percent Farther
- A Cacophony in the Deep Blue Sea: How Ocean Acidification May Be Deafening Whales

Discuss the content of the four articles as a group. What do you think about the effects of ocean acidification and its effects on whales?



Carbon Dioxide and the Ocean

Independent Practice

1. What has happened to the carbon dioxide levels in the atmosphere since the 1850s? Why has this change occurred?
2. How does the increase in carbon dioxide in the atmosphere affect the chemistry of the ocean?
3. What is ocean acidification? What affects does it have on the ocean and the organisms that live in it?

