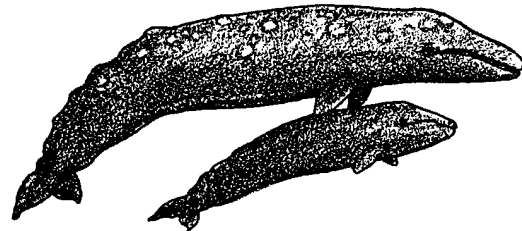


**THE ELECTRONIC WHALE**  
*from THE YEAR OF THE GRAY WHALE*  
 FOR SEA: Marine Biology and Oceanography - Grade 7

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Introduction to this curriculum.....  
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### The Long Journey

- 1. Big As Life .....**  
 After comparing the length of an adult California gray whale to real objects, students enlarge a pattern of a gray whale to life-size on their playground or field.
- 2. A Whale Is Born - December 21 .....**  
 Students use mapping skills to track the migration of gray whales as they begin the story line of the event-filled migration of a new calf and its mother.
- 3. The Electronic Whale.....**  
 Through a computer simulation, students follow gray whale migration, from summer feeding grounds in the Arctic to winter breeding and calving grounds in Mexico.
- 4. The Journey Begins - February 21 .....**  
 Students design a research study which would provide additional information about the northern migration of the gray whale.
- 5. Swimming Northward - March 7.....**  
 The breathing and diving rhythm of gray whales is examined as students calculate average daily progress during migration.
- 6. Marine Mammal Adaptations: Diving Response -Bradycardia .....**  
 As they immerse their faces in cold water, students experience and measure their own diving response.
- 7. Whale Watching - December 10.....**  
 The recommended procedures for observing whales are revealed as students learn how to identify whales.
- 8. Protecting Whales - December 21.....**  
 A discussion of current whaling issues and the International Whaling Commission provide a springboard for student involvement.

### Production Credits