Unit Waves and Sound: Day 14: Nature and Sound Waves

Grade 11

75 min	**Learning Goals** • Define echolocation and give examples of animals that use these tools. • Explain (with examples) how humans can use echolocation. • Describe how dolphins use echolocation. **Curriculum Expectations** • E3.6 explain selected natural phenomena (e.g., echo location, or organisms that produce or receive infrasonic, audible, or ultrasonic sound) with reference to the characteristics and properties of waves	**Materials** • Video and sound clips •
Minds On… 15min	• Show video of boy using echolocation.	Teacher reference:
Action! 40 minutes 20 minutes	• Student discuss/explore how humans can use echolocation. • Working in groups, students will use echolocation techniques (while blindfolded) to navigate and describe obstacles. • Show dolphin echolocation video • Working in groups discuss how dolphins use echolocation. • Compare with activity with obstacles.	Teacher monitors group progress and offers hints as necessary.
Consolidate Debrief 10 minutes	Students complete an exit card ask them to describe how echolocation is used by different animals.	