		Breathi	ng I	Maze	
Relay/Roleplay Game	who hunt them	g animal needs; trad	elationship between belugas/seals (marine mammals) and polar bears s; trade-offs for marine mammals that need to come up for oxygen but tem overlaps		
TIME	<ul> <li>ACTIVE</li> <li>Students have to take opportunities to breathe in between finding</li> <li>Students will have to avoid predators while catching food in Ocean</li> <li>GROUP SIZE</li> <li>LOCATION</li> <li>GRADE</li> <li>EQUIPMENT</li> </ul>				
30+ minutes	10+	Classroom or Outdoor Large play area necessary	LEVEL 1+	Hula hoops Bean bags	
DEBRIEF/REFLECTIVE COMPONENT			HELPFUL TIPS		
<ul> <li>What challenges do marine mammals face living under water but needing to come up for air?</li> <li>What are the trade-offs for air breathing organisms that hunt underwater? Possible harms?</li> </ul>			Effective active game for students Give explicit instructions and expectations prior to playing		

## OCEAN LITERACY PRINCIPLES

- 5. The ocean supports a great diversity of life and ecosystems.
  - d. Ocean biology provides many unique examples of life cycles, adaptations, and important relationships among organisms (symbios is, predator prey dynamics, and energy transfer) that do not occur on land.
  - e. The ocean provides a vast living space with diverse and unique ecosystems from the surface through the water column and down to, and below, the seafloor. Most of the living space on Earth is in the ocean.
  - i. Estuaries provide important and productive nursery areas for many marine and aquatic species.

## Setup

- 1. Scatter hula hoops (breathing holes) far apart within playing field.
- 2. Place bean bags (Arctic cod or squid) throughout playing field.
- 3. Choose 2 leaders or students to start as Polar Bears
- 4. The remaining students are belugas or seals and they must collect bean bags as food. Belugas and seals are mammals so while "swimming" and looking for food they must hold their breath unless they come to a breathing hole (hula hoop) to take in breath before diving for more food.
- 5. While at breathing holes the predatory Polar Bears may tag them which means they are out (alternatively they could lose their food but continue to play)
- 6. Game ends either when no fish are left to catch or no seals/belugas to collect fish

