



Live Dive: Fourth Grade Pre-Program Activity

Before the Live Dive

To prepare your students with concepts that will be built upon during your program, have them participate in the activity outlined below.

When you schedule a Live Dive broadcast, you will be sent eight park brochures as part of your confirmation. They will be used in this activity.

Materials PDFs available at www.nps.gov/chis/forteachers/learning/dive4.htm
One park brochure per table group
Copy of pre-program activity sheet for each group or each student (PDF)
Copy of species ID key for each group or each student (PDF)
Pencils

Duration 30 minutes

Vocabulary Producer, consumer, ecosystem

Procedure Allow students to work through the activity sheet, either in small groups or independently.
Review their responses as a whole class when complete.

Answer Key **Producers**—giant bladder kelp, surf grass, red algae
Producers' roles—habitat (shelter), food, oxygen
Examples—opal eye hiding among the kelp blades, sea urchins eating kelp for food, kelp photosynthesizing to produce oxygen

Consumers—

Invertebrates: chiton, sea urchin, barnacle, abalone, kelp snail, lobster, squid, anemone, nudibranch, scallop, rock crab, sea star, sea cucumber, bat star

Fish/sharks/rays: opal eye, blacksmith, señorita, top smelt, Garibaldi, sheephead, bat ray, horn shark

Birds: seagull, pelican, cormorant, snowy plover, oyster catcher

Mammals: sea lion, elephant seal, scuba diver

Consumers' roles—eating other organisms to keep their population stable, providing food for other organisms

Examples—sheephead eat sea urchins so their population remains stable (doesn't overpopulate), a blacksmith is a meal for a sea lion