

MARKS: /7K /19I /14C /8A

INSTRUCTIONS:

1. Attached to this sheet are diagrams of organisms that live in the ocean. Cut out each diagram and put the organisms in one of four groups based on the circled letters in the top left hand corner of each diagram (kf = kelp forest, cr = coral reef, hv = hydrothermal vent, and po = polar ocean)
2. Colour in each diagram neatly. **(8C)**
3. Make a food chain/web using all of the organisms for each of the four groupings. **(19I)**
4. Present each food chain/web on a **separate sheet** of paper.
5. Answer the following questions in complete sentences at the bottom of the page showing the appropriate food chain/web.

QUESTIONS:

KELP FOREST → What would happen to this food web if the sea urchin were to become extinct? **EXPLAIN** your answer **(4A 2C)**

HYDROTHERMAL VENT → What would happen to this food web if the vent closed up and the water became too cold for the bacteria to make their own food? **EXPLAIN** your answer **(4A 2C)**

CORAL REEF → Label each of the organisms in this food web using the following terms: producer, herbivore, or carnivore. **(5K)**

POLAR OCEAN → What is the top carnivore in this food web? What does the term "top carnivore" mean? **(2K 2C)**

(kf)

Kelp



Produces food

(kf)

Copepod



Eats kelp

(kf)

Sea urchin



Eats kelp

(cr)

Coral shrimp



Feeds around coral

(cr)

Algae



Produces food

(cr)

Staghorn coral



Eats algae

(hv)

Bacteria



Produces food

(hv)

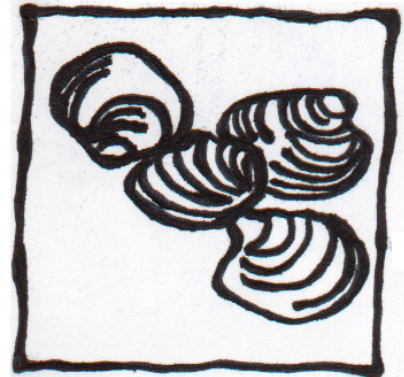
Tube worms



Eats bacteria

(hv)

Clams



Eats bacteria

(kf) Sea otter



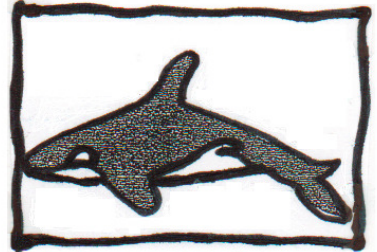
Eats sea urchins
and abalone

(cr) Barracuda



Eats fish

(po) Killer whale



Eats penguins
and seals

(hv) Mussels



Eats bacteria

(hv) Octopus



Eats clams and mussels

(kf) Abalone



Eats kelp

(cr) Butterfly fish



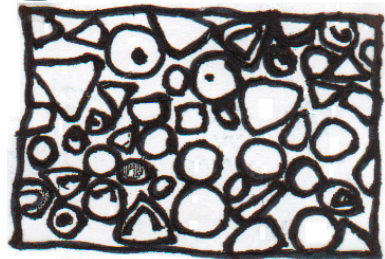
Feeds around coral

(po) Seal



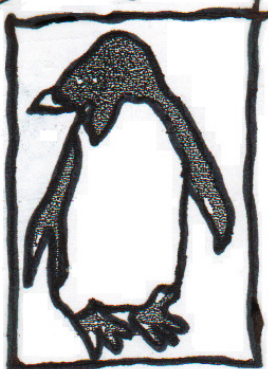
Eats penguins

(po) Diatoms



Produces food

(po) Penguin



Eats
krill

(po) Krill



Eats diatoms