

Welcome to NOAA's office in Woods Hole



Woods Hole, Massachusetts

Live Birth

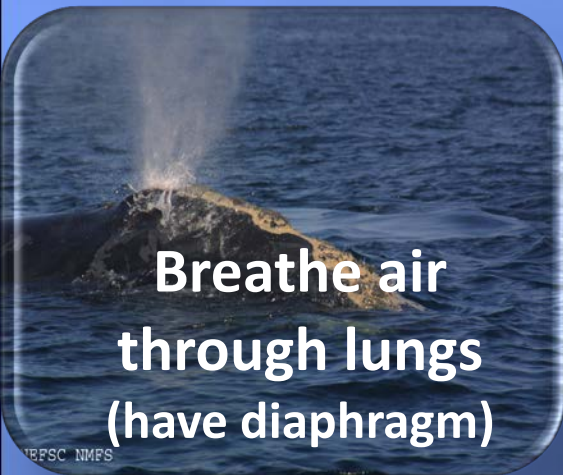


Mammary Glands



What is a mammal?

Breathe air through lungs (have diaphragm)



Warm-blooded (endothermic)

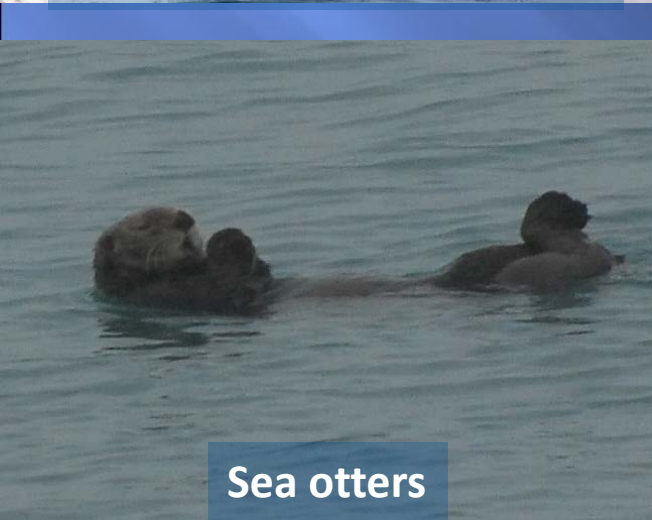


Hair



What is a marine mammal?

Mammals adapted for life in the marine environment

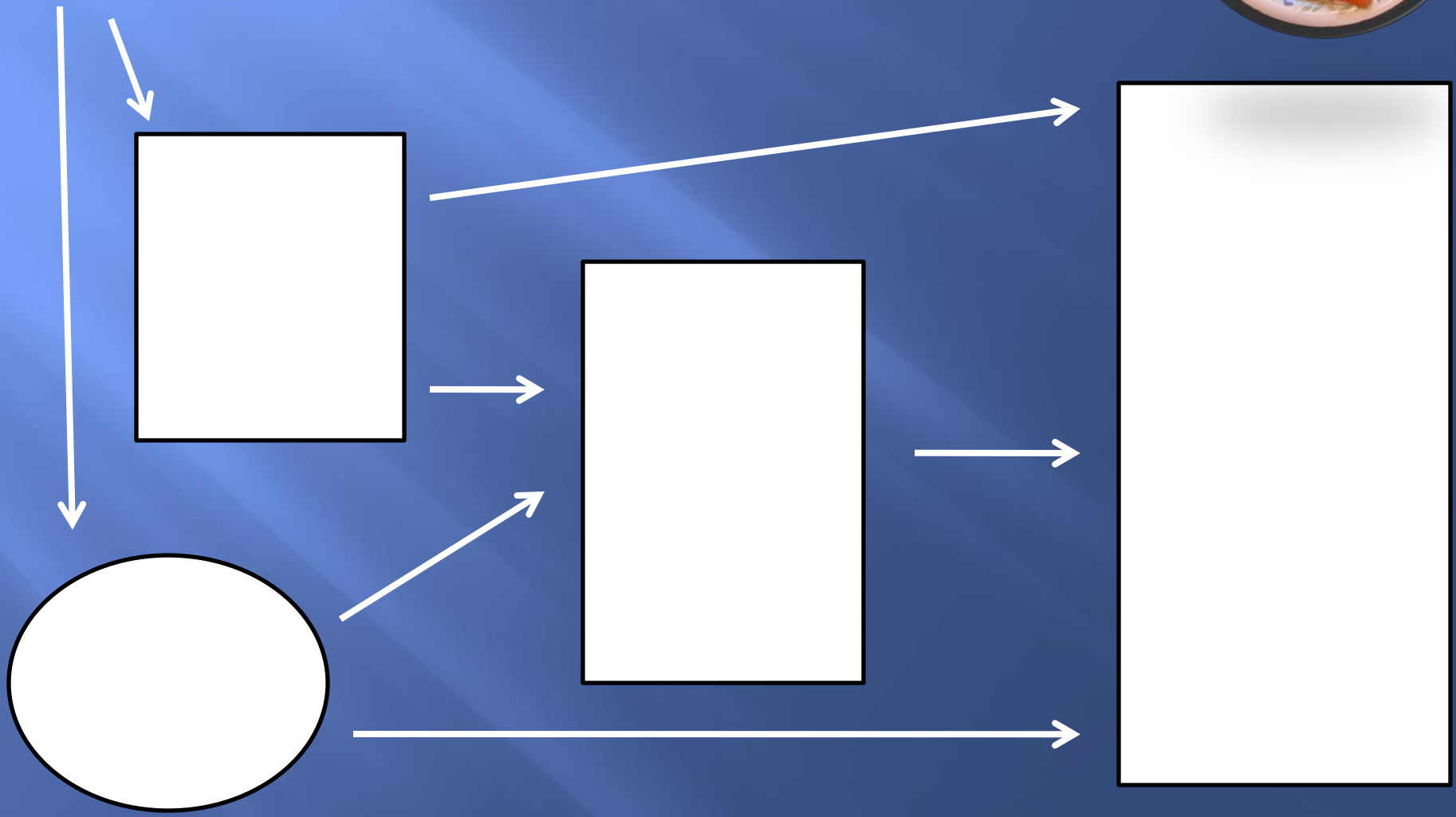


Sirenians
(manatees, dugongs)





Joey's Food Web

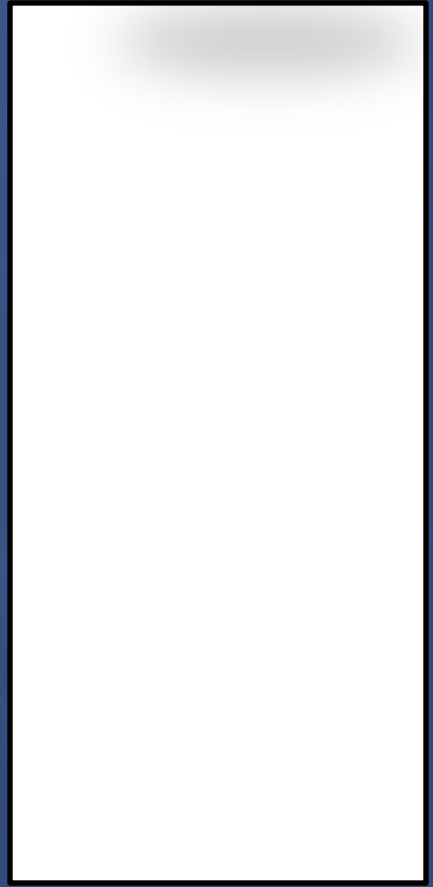
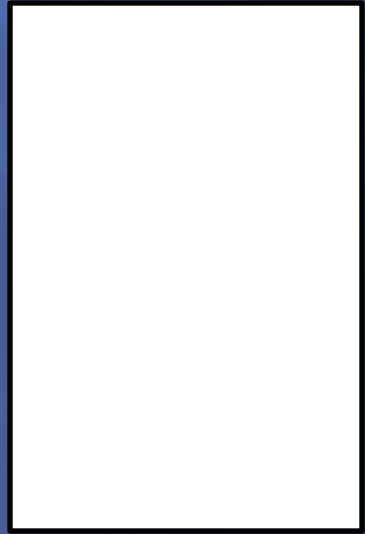




Joey's Food Web



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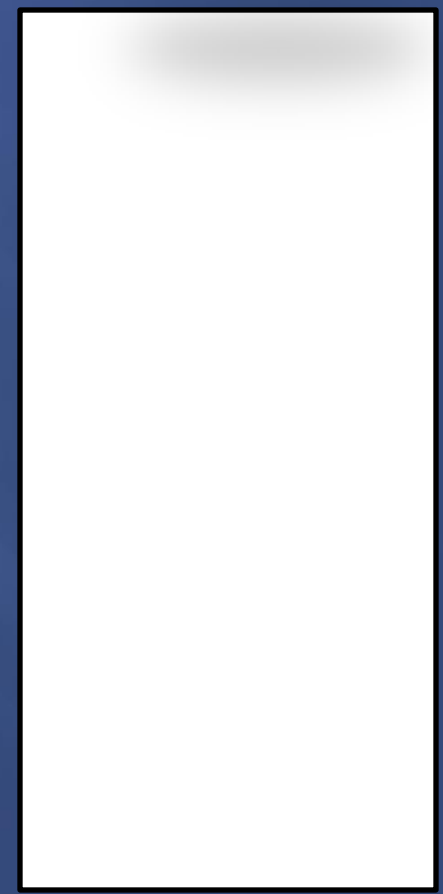
Joey's Food Web



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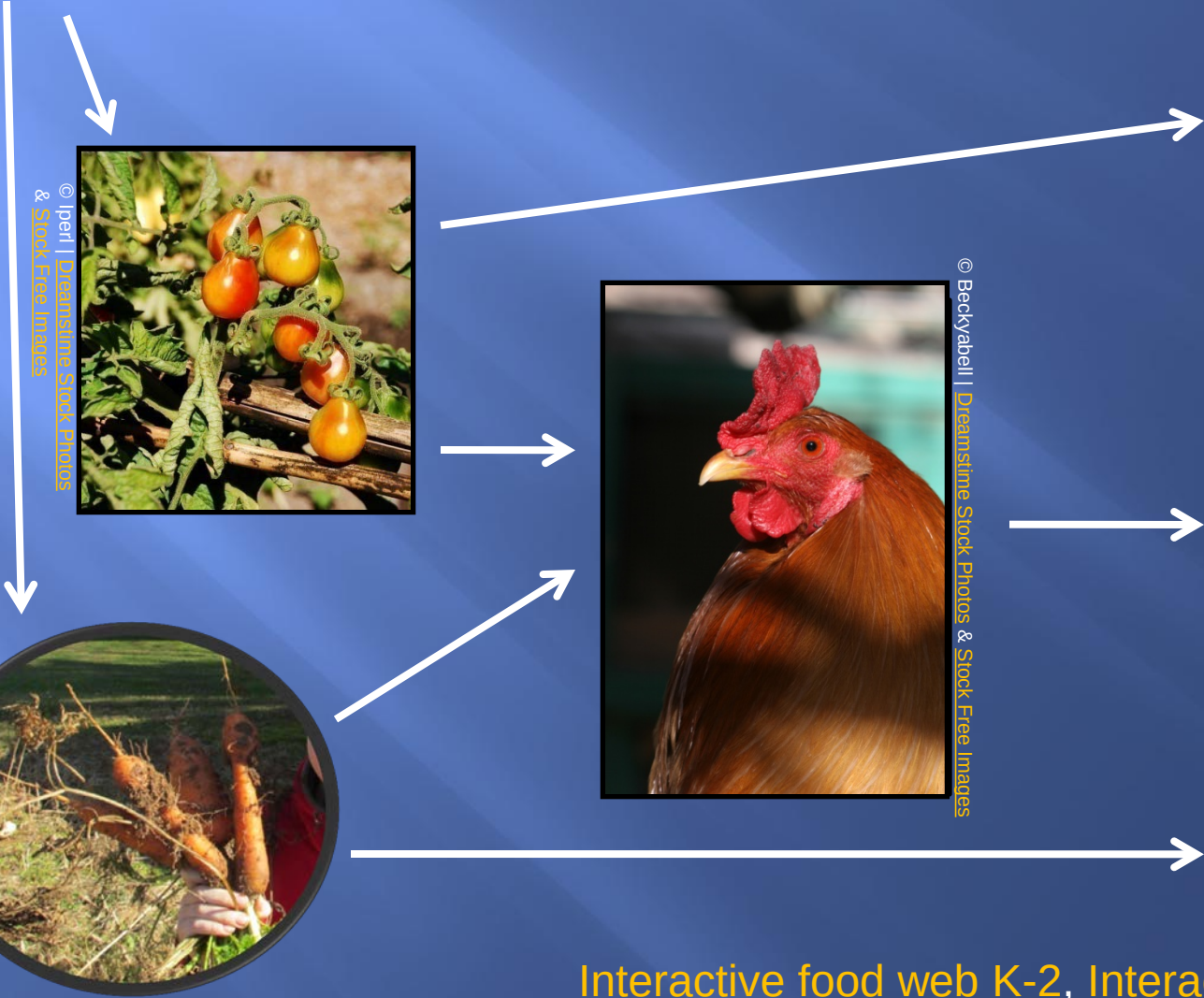


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Joey's Food Web

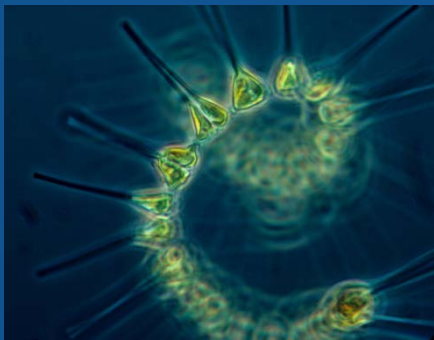


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Bottom of the Food Chain

...in the Ocean



Diatoms



Kelp



NOAA Marine Biotoxins Program

Dinoflagellate



Algae (seaweed)

...on Land



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Zooplankton



Image [courtesy](http://www.arcodiv.org) of <http://www.arcodiv.org>

Copepod



Image [courtesy](http://www.arcodiv.org) of <http://www.arcodiv.org>

Euphausiid (krill)

Small Fish



Sand lance

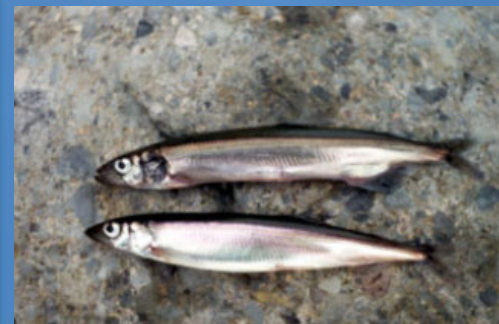
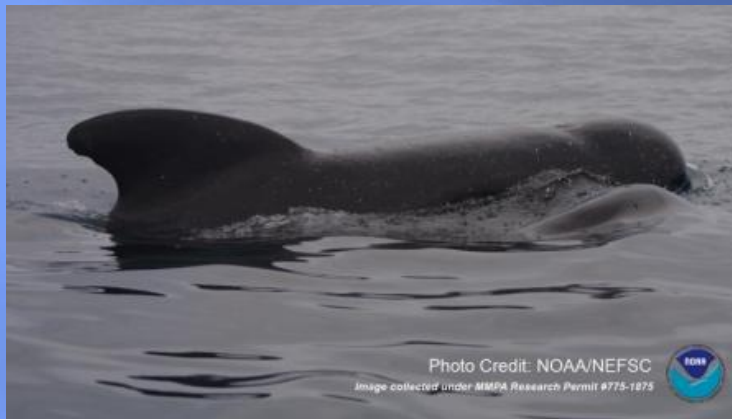


Image from [Fisheries and Oceans Canada](http://www.fisheriesandoceans.ca)

Capelin



Herring



Pilot Whale
I have teeth

2
Turtles

1 Seal

2 Rays

1

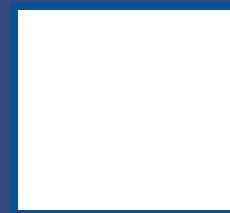
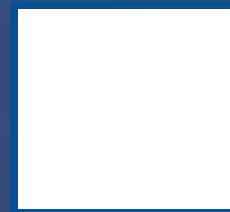
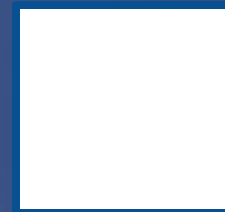
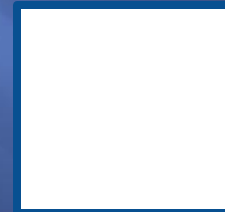
1
Turtle

2 Seals

2



North Atlantic Right Whale
I have baleen





OCTOPUS

Odontocetes



You are an toothed whale

With Teeth You MAY Eat:

You have 30 seconds to eat. Ready,
set, go!



SHARKS



RAYS



PENGUINS



SEALS, WALRUS, SEA LIONS



FISH



TURTLES



Pilot Whale
I have teeth

2
Turtles

1 Seal

2 Rays

1

1
Turtle

2 Seals

2



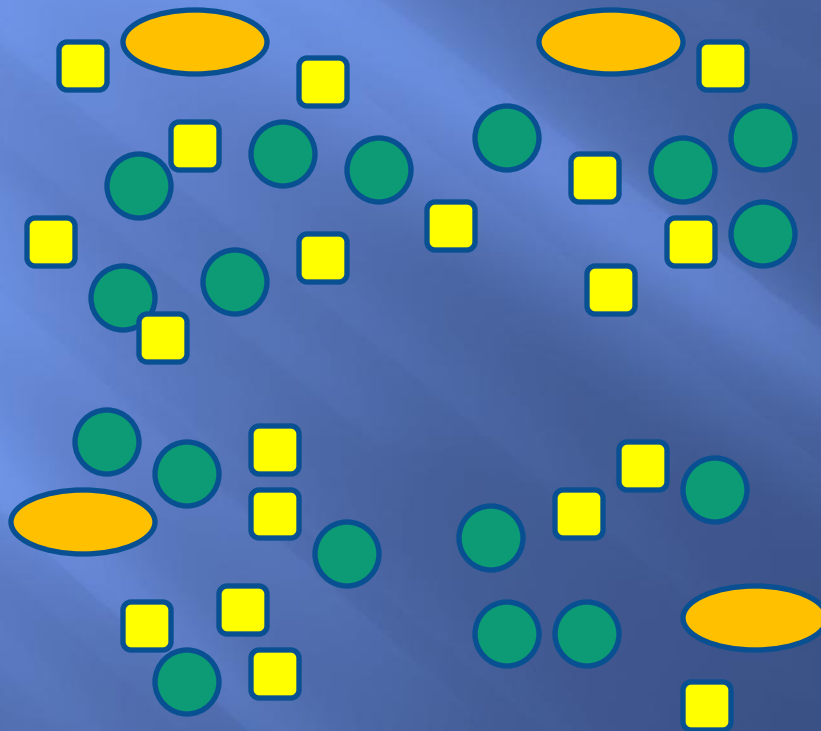
North Atlantic Right Whale
I have baleen

40
Peas

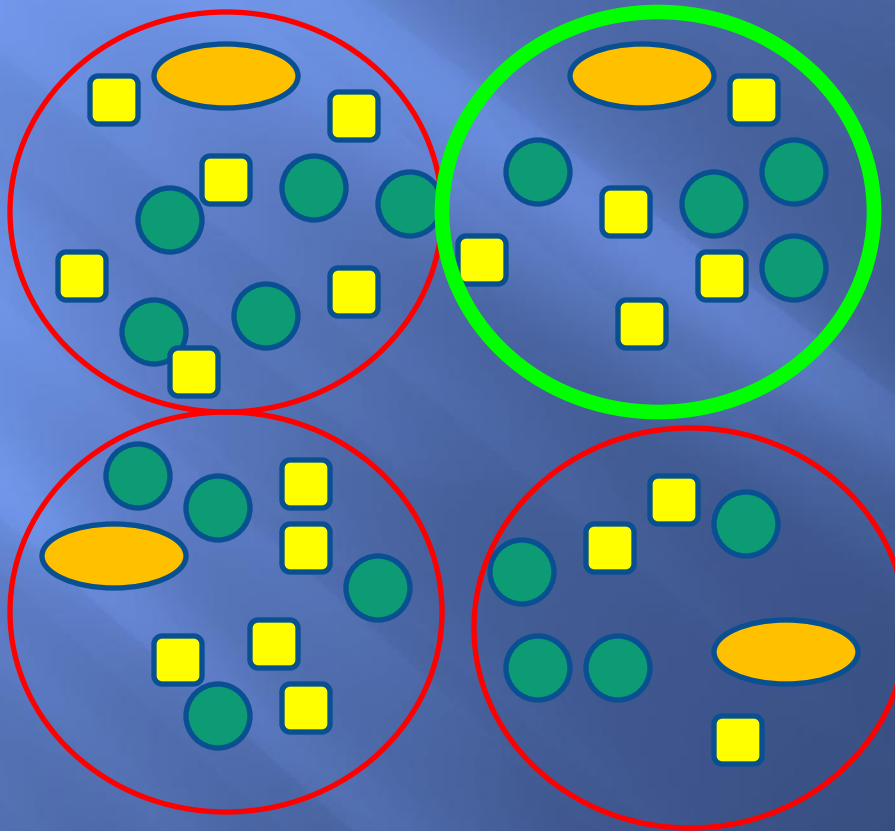
5
Pumpkin
Seeds

30
Corn

Estimate the “Plankton”



Estimate the “Plankton”



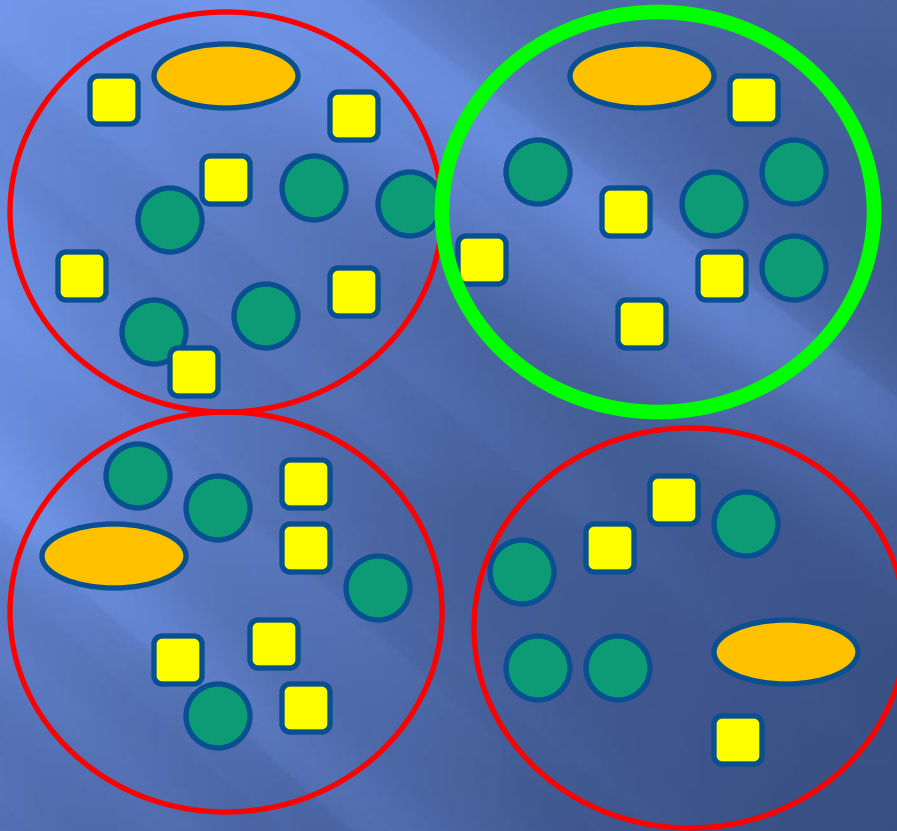
ESTIMATE

 = $4 \times 4 = 16$

 = $5 \times 4 = 20$

 = $1 \times 4 = 4$

Estimate the “Plankton”



ESTIMATE

-  = $4 \times 4 = 16$
-  = $5 \times 4 = 20$
-  = $1 \times 4 = 4$

ACTUAL

-  = 17
-  = 19
-  = 4

Mysticetes



You are a baleen whale

With Baleen You MAY Plankton (pea, corn and pumpkin seeds)

You have 30 seconds to eat. Ready, set, go!

Make Your Own Food Chain

Scientist Spotlight

Our very own PSB scientist...

Fred Wenzel studies marine mammal feeding behavior. He looks at the contents of marine mammal stomachs (of dead animals) to see what and how much they are eating.



How can we help?

- ▣ Don't litter



- ▣ Recycle



- ▣ Buy eco-friendly products



- ▣ Conserve

Spread
the word

