



NEW SOUTH  
WALES

# SECONDARY ACTIVITY

# MARINE ECOSYSTEMS

# FOOD WEB

- Syllabus Reference
- Resources
- Worksheet



## SYLLABUS REFERENCE

- **E-LW5** Science and technology contribute to finding solutions to conserving and managing sustainable ecosystems.

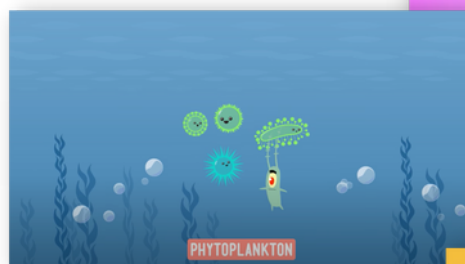
**Students:**

- a. construct and interpret food chains and food webs, including examples from Australian ecosystems

## ADDITIONAL RESOURCES



- [Food Chains Compilation: Crash Course Kids](#)
- [Food Webs: Crash Course Kids #21.2](#)
- [Intertidal Rocky Shore Life: An Identification guide](#)



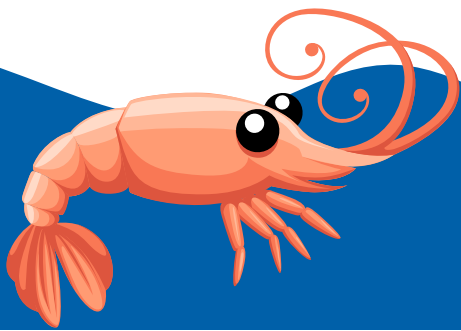
# HOW TO CREATE YOUR FOOD WEB

## STUDENT WORKSHEET

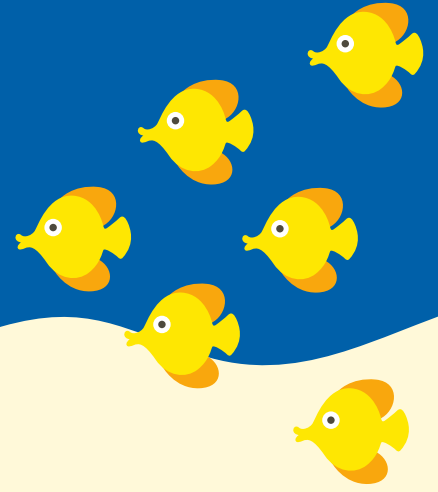
- Cut out plant and animal cards provided.
- Arrange plant cards (producers) at the bottom of a large piece of paper.
- Find animals (first order consumers) that eat plants and spread above plants, leaving room to draw arrows.
- Place animals (second order consumers) that eat first order consumers, above first order consumers.
- Place remaining animals (third order consumers) above second order consumers, at top of paper.
- Glue cards onto paper.
- Draw arrows to show what each animal eats - they may eat several things. Remember, arrows must point from the species being eaten to the one that's eating it.

### MARINE ECOSYSTEM FOOD WEB

ORGANISM	DIET
Snake-Skinned Chiton	Seaweeds
Common ecklonia kelp	Producer
Waratah anemone	Small crustaceans and small fish
White Sponge	Detritus, plankton and debris
Short coralline algae	Producer
Fireworm	Corals, anemones and small crustaceans
Red striped shrimp	Algae
Common hairy crab	Seaweeds and algae
Gloomy Octopus	Crustaceans and small fish
Eleven-armed sea star	Marine Worms and small crabs
Silver Gull	Crustaceans, small fish, anemones fish and squid
Rock Goby	Small prawns crabs and worms



# ORGANISMS



**Snake Skinned Chiton**



**Short Coralline Algae**



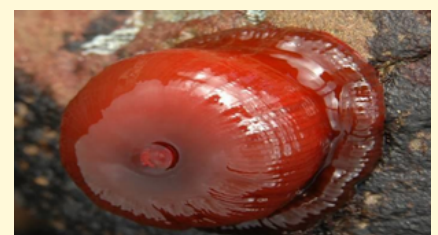
**Common Ecklonia kelp**



**Fireworm**



**White sponge**



**Waratah anemone**



**Red-striped shrimp**



**Common hairy crab**



**Gloomy octopus**



**Eleven-armed sea star**



**Silver Gull**



**Rock Goby**



**ANSWER THESE  
QUESTIONS ABOUT  
THE FOOD WEB YOU  
HAVE CREATED**

Which  
organisms are  
**producers**?

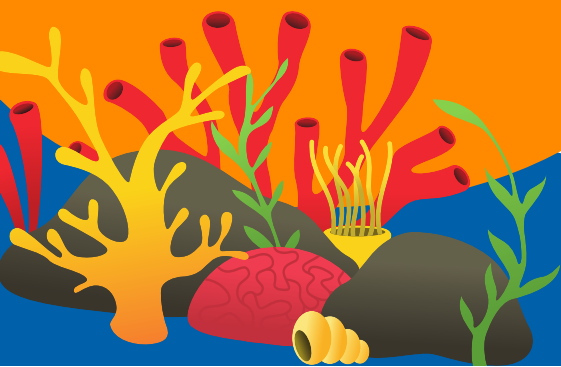
Which organisms are  
**first order** consumers  
(eat producers)?

Which organisms  
are **second order**  
consumers (eat  
first order  
consumers)?

What would happen to  
the population of other  
species if anemones  
were removed from  
the food web?

Are any animals  
both **second order**  
and **third order**  
consumers?

Why are  
sponges  
important for  
the food web?





NEW SOUTH  
WALES

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RESOURCES  
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[beachsafetyhub.org.au](https://beachsafetyhub.org.au)