



# SHARKSMART

A WORKBOOK FOR STAGE 1 / Years 1-2



SHARK LISTENING STATIONS





# RESPECT THE OCEAN, SHARKS ARE IMPORTANT FOR HEALTHY SEAS



The NSW Department of Primary Industries (DPI) has done lots of research as part of the NSW Shark Management Strategy. The research has told us a lot about sharks and where they live. This workbook will help you explore the work of the Strategy. The NSW SharkSmart website, YouTube videos (search for the Primary School SharkSmart playlist) and social media channels will help you

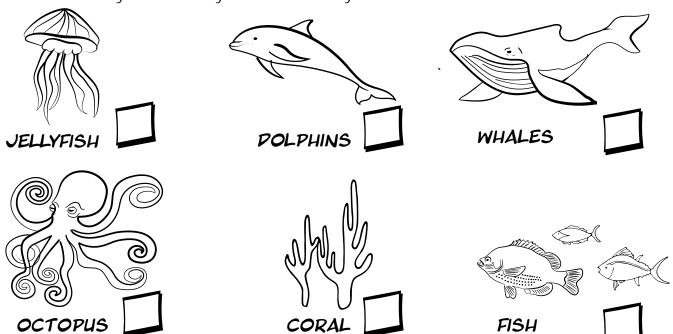


### WHAT ARE SHARKS?

complete these pages.

Sharks are closely related to many other animals that live in the ocean, which ones do you think they are most closely related to?





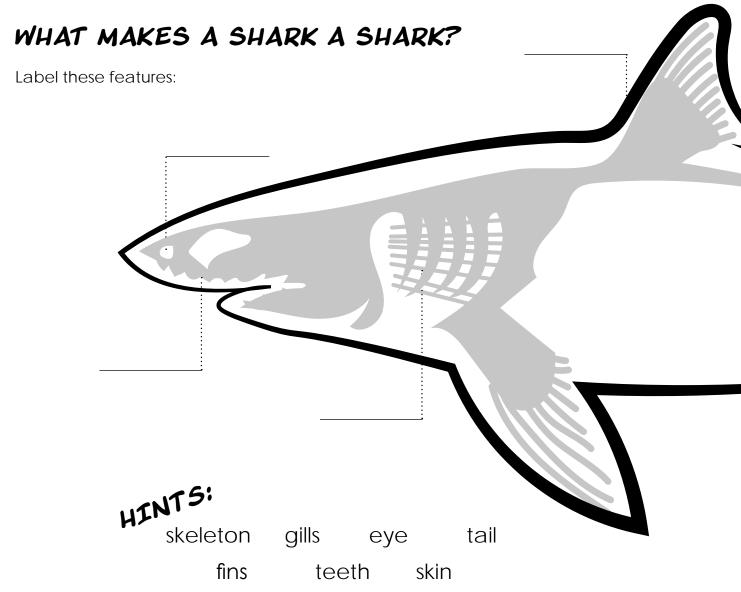
#### WHAT PO YOU KNOW ABOUT SHARKS?

Where do they live?

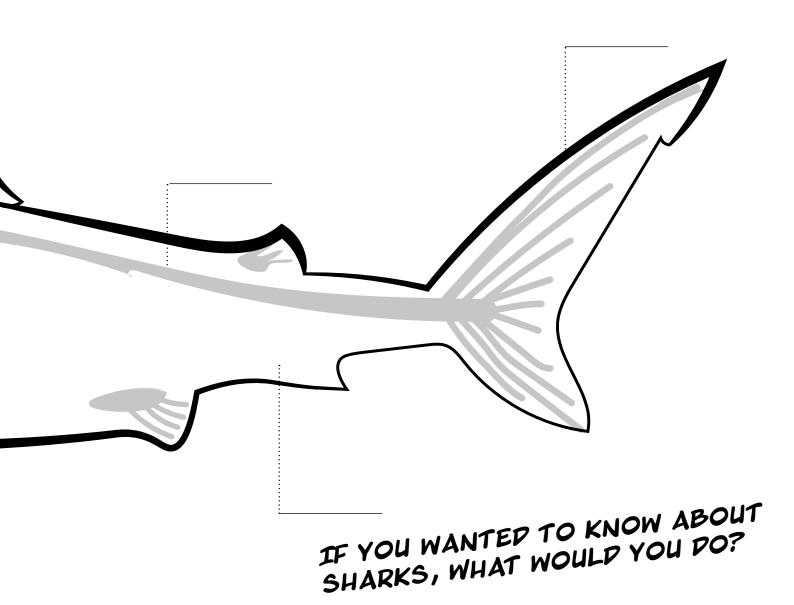
What do they eat?

How do they breathe?

# SHARKS ARE AMAZING!



How do you feel about sharks?

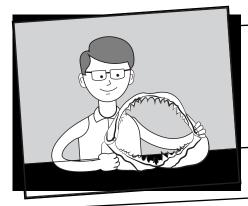


Who would you talk to or where would you go?

What would you ask?

Well the NSW Department of Primary Industries (let's call them DPI for short) wanted to know more about the sharks we see around New South Wales beaches, so they have a team of people, working together on the NSW Shark Management Strategy

# THE SCIENTISTS



#### **Dr Vic Peddemors**

studies the sharks that are found around NSW beaches. Information comes to Vic about sharks caught in shark nets, from the sharks caught on SMART drumlines and sometimes from shark bites.

#### **Dr Amy Smoothey**

studies where sharks live and where they travel to at different times of the year by tagging and tracking sharks. She also studies shark biology – that's how fast they grow, what they eat and how they fit in with the other animals in the ocean.



# RESEARCH

#### Dr Paul Butcher

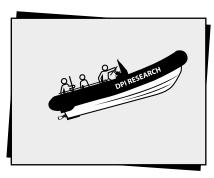
studies how to best keep sharks and people apart! We love the sharks in the ocean but when they come in contact with people it's pretty scary and sometimes really dangerous. Paul is most interested in how the SMART drumlines help us to keep our distance and tracking sharks to see where they move.

Vic, Amy and Paul work with a team of people who help with tagging sharks and watching where they go as well as looking after the technology. Some are working on different research projects using drones, video cameras and information from the tags. They all work together to help keep people and sharks from getting in each other's way. The more we know about sharks the better we are at looking out for them ... and looking after them!

# TOOLS OF THE TRAPE

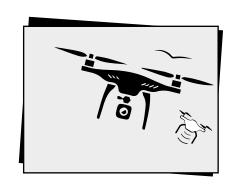
What are the tools below used for?

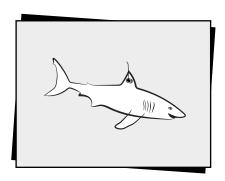




**Boat:** 

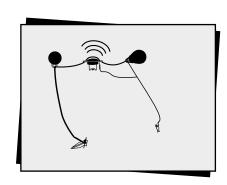


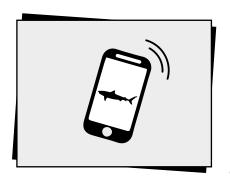




Tag:

SMART drumline buoy:





Phone:



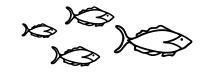


Different species of sharks eat different types of food, and what they eat changes as they get older. Sound familiar?

ARE THERE THINGS THAT

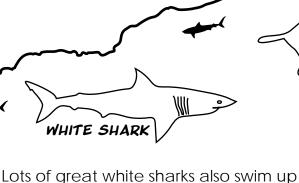
THERE
THINGS THAT YOU
EAT NOW THAT YOU
PIDN'T LIKE WHEN YOU
WERE YOUNGER?





Smaller bull sharks eat small fish and rays. Adult bull sharks eat other sharks and larger animals like turtles and some mammals.





Did you know, the biggest shark, the whale shark, growing up to 12 m in length, eats tiny krill and plankton!

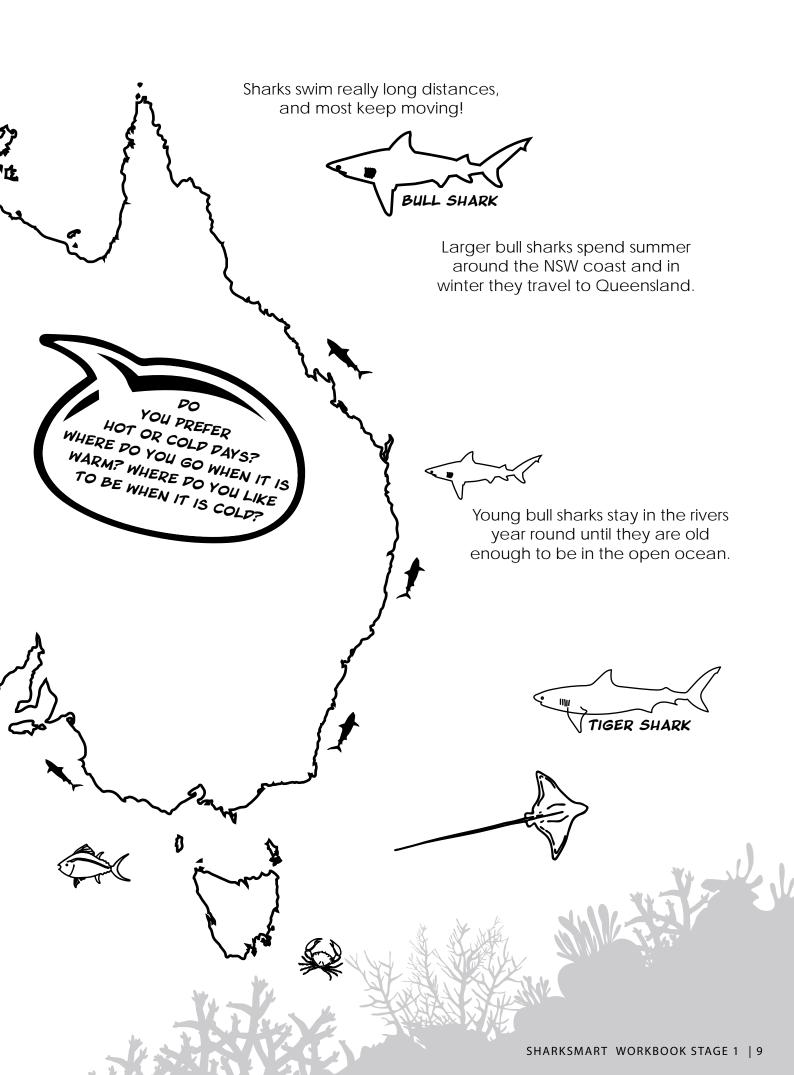
12m

Lots of great white sharks also swim up and down the coast from Victoria to Queensland.

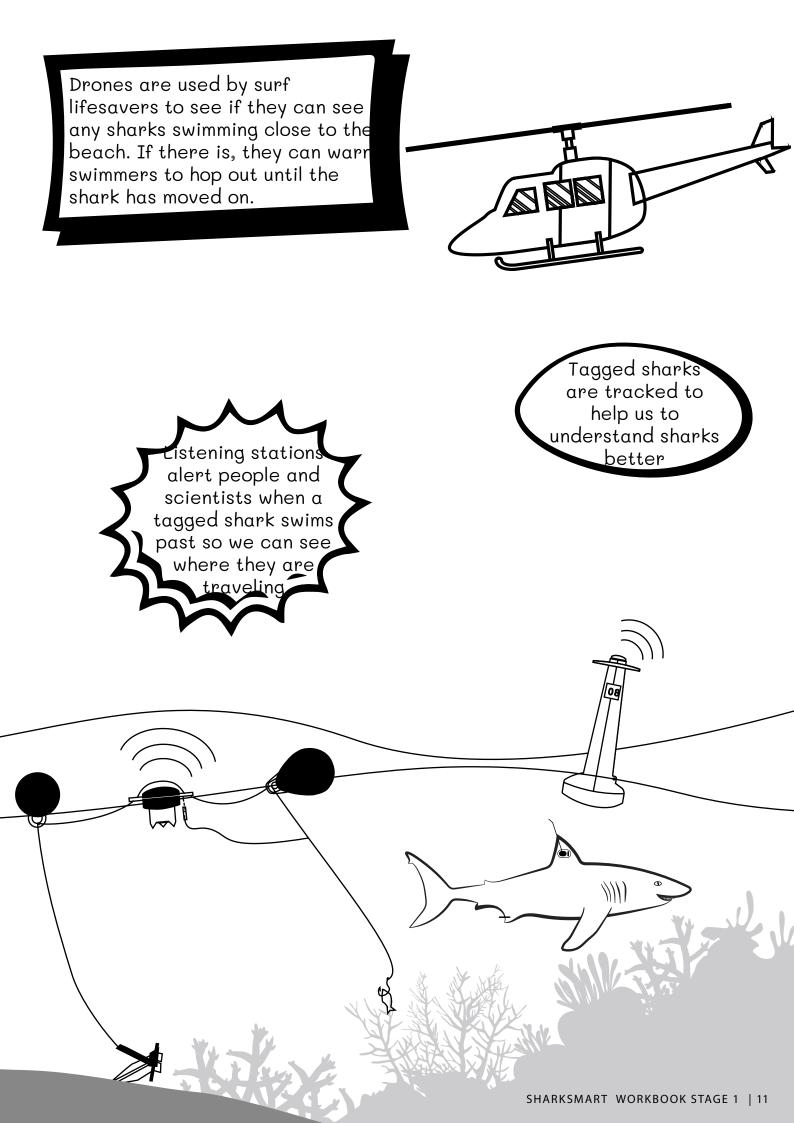
Others swim huge distances; one white shark swam to New Zealand and then Papua New Guinea, another shark swam all the way around to Western Australia and

back... three times!









# STAYING SAFE AT THE BEACH AND IN THE OCEAN

Tick the ways that you stay safe when you are at the beach

Always make sure an adult you trust knows where you are
Protect yourself from the sun with a hat and sunscreen
Always swim with an adult who is a good swimmer
Check the SharkSmart app to see if there has been any sharks spotted nearby today
Swim between the flags at patrolled beaches
Avoid swimming at dusk and dawn
Avoid swimming where there are fishing boats
Watch for diving birds or fish activity in the water
WHAT ELSE WOULP YOU LIKE TO KNOW ABOUT SHARKS

Write some questions here:

If you would like to know more you can find lots of information on the SharkSmart website: www.sharksmart.nsw.gov.au/







HELICOPTER
SURVEILLANCE FLIGHTS



SCIENCE &
RESEARCH





PERSONAL SHARK

DETERRENT

DEVICE