

COME, EXPLORE AND LEARN

ABOUT MARITIME SINGAPORE!

ACTIVITY BOOKLET

SINGAPORE
MARITIME
GALLERY

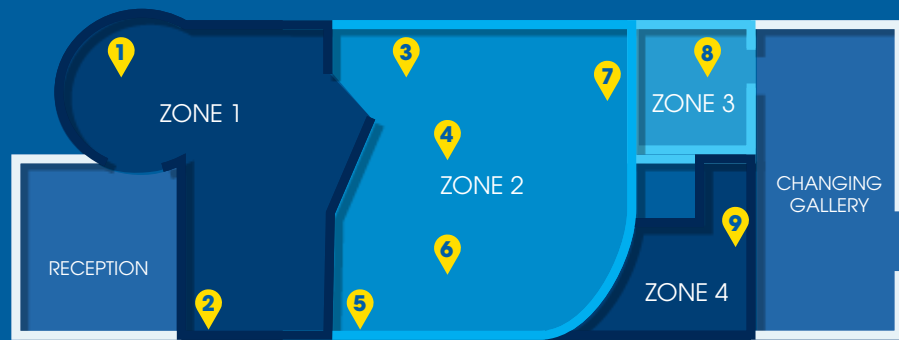


AHOY, ADVENTURER!



Welcome to the Singapore Maritime Gallery! Have you heard our Maritime Singapore story, the one that started more than 700 years ago? You have a part to play in this story too, so let's start exploring through these activities!

NAVIGATING THE GALLERY

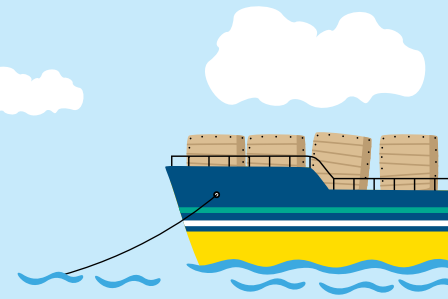


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FUN FACT

Singapore takes care of 5 lighthouses - find out more about them in your discovery journey here in the gallery.

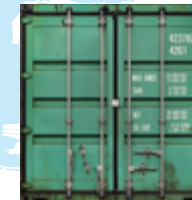
PACK IT UP



COMMONLY TRADED GOODS IN SINGAPORE

In the past, different types of goods were packed in different ways for protection, making it easier to carry them onto ships from, and to, their destinations. Today, all goods are packed in steel containers.

OPEN UP THESE DIFFERENT PACKAGINGS IN THE GALLERY AND DRAW 2 TYPES OF GOODS YOU CAN FIND IN EACH OF THEM.



FUN FACT

The mouth of Singapore River was the place where port activities first begun, with bumboats loading and unloading goods from ships to warehouses.

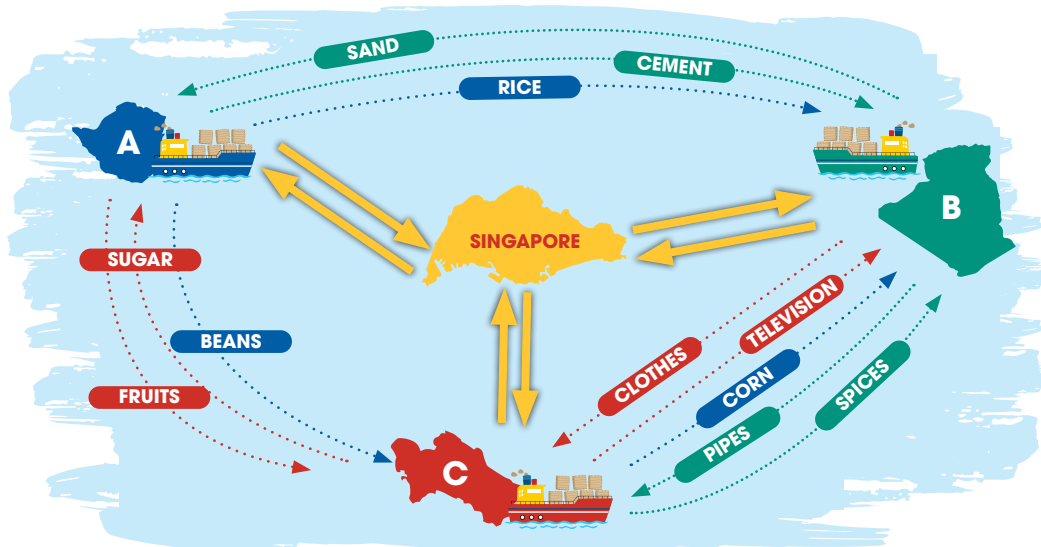
LESS TRIPS, SAVE TIME



Transshipment is when ships carrying goods stop at one distribution port to unload goods going to other countries, before loading goods coming to their home country.

Before transshipment, ships have to make many trips to different countries. See the lines in **red**, **blue** and **green**. With transshipment, ships only need to make one round trip to a distribution port like Singapore. See the lines in **yellow**.

HOW MANY TRIPS DO SHIPS SAVE WITH TRANSHIPMENT?



COUNT THE NUMBER OF TRIPS AND FILL IN THE BLANKS.

_____ trips before transshipment (**red**, **blue** and **green** lines only) - _____ trips after transshipment (**yellow** lines only) = _____ trips saved!

FUN FACT

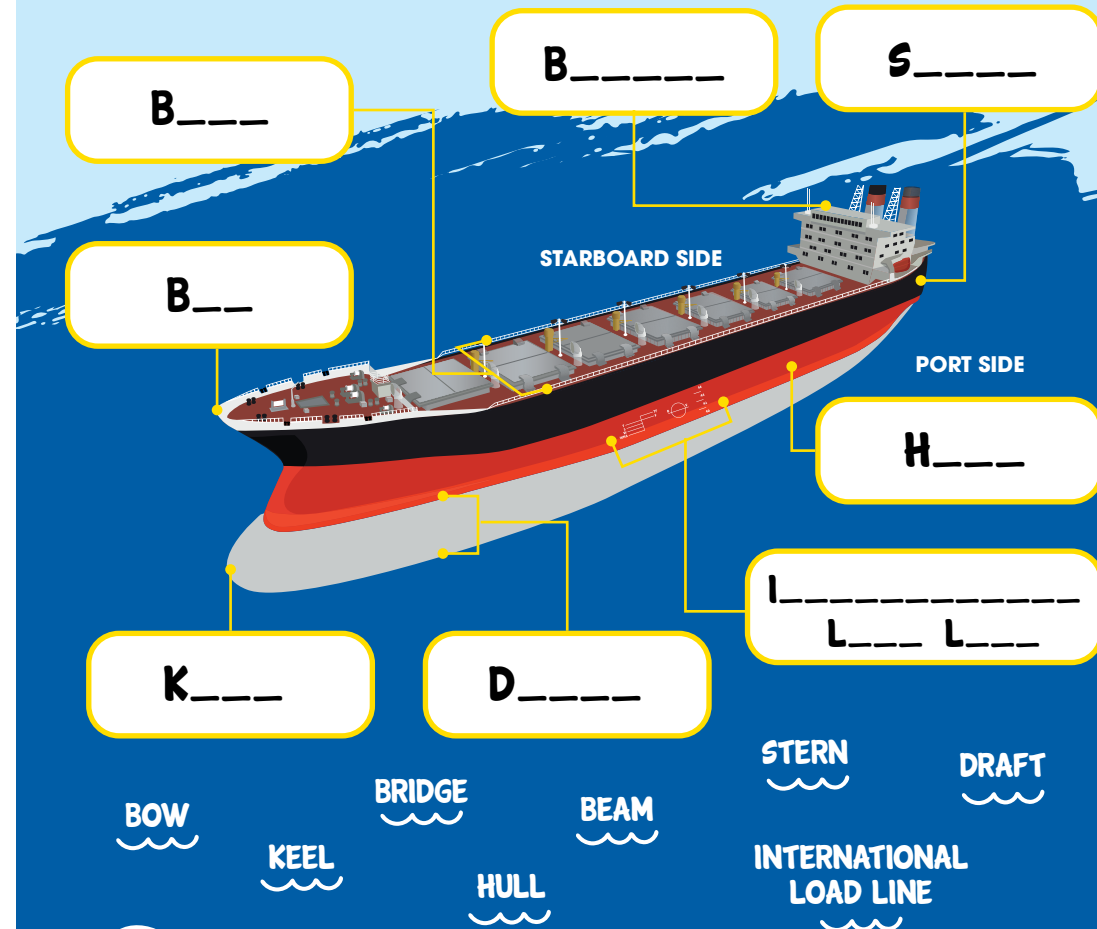
The Vessel Traffic Information System (VTIS) uses technology such as radar and Electronic Chart System to safely guide the movements of ships in the Port.

KNOW YOUR SHIP

All sailors need to know the different parts of a ship.

NAME ALL THE PARTS OF A SHIP HERE.

Hint: Look under the drawing for the helping words.



FUN FACT

In the past, sailors depended on wind power to travel until the invention of steamships, which burned coal for power instead.

WHEN I GROW UP

The International Maritime Centre (IMC) is not a building but a collection of maritime services offered by Singapore. Many of these services are interesting and fulfilling jobs – find one that you would like to do!

MATCH THE JOBS TO THEIR DESCRIPTIONS.

- | | | | |
|------------------------------|-----------------------|-----------------------|--|
| MARINE SURVEYOR | <input type="radio"/> | <input type="radio"/> | Guides the ship to move in and out of ports safely. |
| HARBOUR PILOT | <input type="radio"/> | <input type="radio"/> | Takes charge of all machineries in a ship that keeps it moving. |
| SHIP FINANCIER | <input type="radio"/> | <input type="radio"/> | Commands and leads a crew to safely operate and navigate the ship. |
| MARITIME LAWYER | <input type="radio"/> | <input type="radio"/> | Manages the flow of money to help the needs of shipping customers. |
| NAVAL ARCHITECT | <input type="radio"/> | <input type="radio"/> | Inspects ships to make sure that they are safe. |
| MARINE CHIEF ENGINEER | <input type="radio"/> | <input type="radio"/> | An expert in maritime law to help protect shipping customers' rights. |
| SHIP CAPTAIN | <input type="radio"/> | <input type="radio"/> | Designs and builds ships like aircraft carriers, submarines, cargo ships, etc. |

FUN FACT

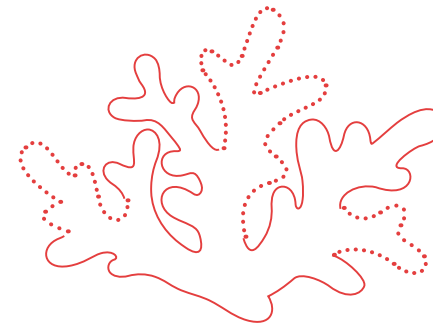
All ships are registered to a port of their choice, called a registry. It is like having an 'identity card' showing the origin of the ship. The Singapore Registry of Ships (SRS) is ranked top 5 in the world.

UNDERWATER BEAUTIES

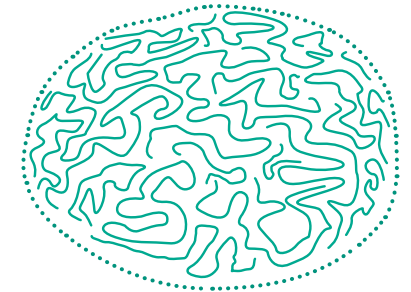


Unlike fish, corals cannot swim away when they are in danger, so they need to be protected. This was why the Maritime and Port Authority of Singapore (MPA) worked with many partners to give corals a new home at the Southern Islands when building the Next Generation Port at Tuas.

CONNECT THE DOTS TO DISCOVER THESE UNDERWATER BEAUTIES.



Species name: *Echinopora horrida*
Common name: Hedgehog coral



Species name: *Pachyseries speciosa*
Common name: Serpent coral

UNSCRAMBLE THE NAMES OF THESE 4 ISLANDS WHERE THE CORALS ARE NOW LOCATED.

- | | |
|-----------------|----------------|
| tS hn'soJ _____ | sKuu _____ |
| aurzaLs _____ | iSsr'set _____ |

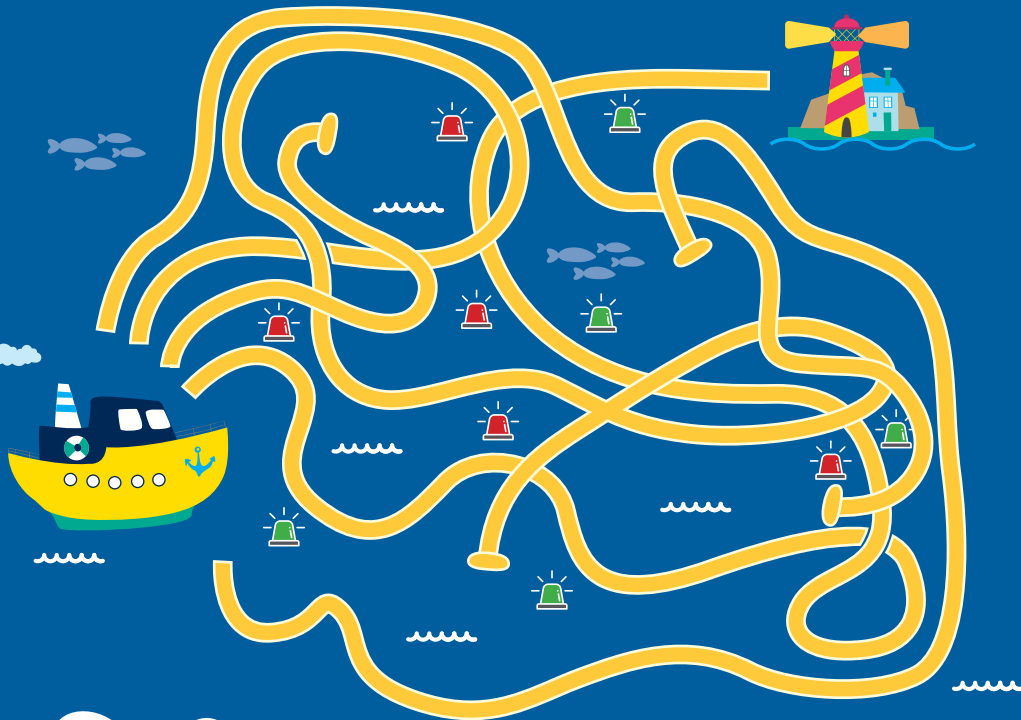
FUN FACT

Hydrographers gather information on how deep the sea is and any dangerous obstacles underwater for safe navigation in the Port.

SHIP TO SHORE

Look for the section on buoys and beacons in the gallery, and see how the different coloured lanterns help ships move safely.

FROM WHAT YOU HAVE LEARNT, USE THE RED AND GREEN LANTERNS TO GUIDE THE SHIP SAFELY TO SHORE. THE SHIP MUST TRAVEL WITH RED ON ITS LEFT AND GREEN ON ITS RIGHT.

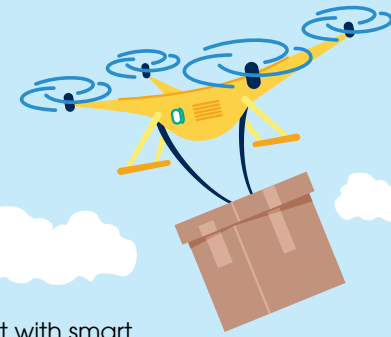


FUN FACT

The journey of a ship is controlled by a team working from the Ship Bridge. Find out more about the Ship Bridge at the Ship Handling Simulator station.

THE FUTURE IS HERE

Singapore's Next Generation Port (NGP) will be built with smart technology and automation, and will be fully completed in the 2040s.



HOW DO YOU THINK THE PORT WILL LOOK LIKE 100 YEARS FROM NOW?

WATCH THE VIDEO IN THE GALLERY FOR MORE INSPIRATION, AND DRAW OUT WHAT YOU THINK BELOW!



LNG Fuelled Harbour Craft



Automated Quay Crane



Terminal Control Centre

Use these icons to help you.

FUN FACT

Do you know that Singapore builds ice-breaker vessels and oil rigs? In fact, the majority of the oil rigs in the world are built by Singapore.

NEW HORIZONS



Do you know that at any one time, there can be about 1,000 vessels in the Port of Singapore?

Look at the view of Marina South Pier and count how many vessels you can spot in the water today.

CIRCLE THE VESSELS YOU MANAGE TO SIGHT!

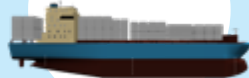
BULK CARRIER



GENERAL CARGO SHIP



CONTAINER SHIP



GARBAGE COLLECTION CRAFT



TUGBOAT



BUNKER TANKER



VEHICLE CARRIER



FILL IN THE BLANKS.

I, (_____) SPOTTED (_____) VESSELS

name

total no.

ON (____ / ____ / ____) AT (____ : ____)

date

time

FUN FACT

To help the maritime environment, Singapore promotes the use of Liquefied Natural Gas (LNG) as a fuel for vessels, which is less harmful to the environment.

ALL THINGS MARITIME



LOOK FOR THESE 10 KEY WORDS ABOUT MARITIME SINGAPORE THAT YOU HAVE LEARNT TODAY!

TRANSHIPMENT Lighthouse BUNKERING CONTAINER MARITIME PORT STEAMSHIP SIMULATOR NAVIGATION HYDROGRAPHY

R	T	R	A	N	S	H	I	P	M	E	N	T	S	N
M	A	R	I	T	I	M	E	O	F	H	K	V	M	A
Z	B	L	U	K	L	C	B	R	P	Q	C	G	H	V
H	M	Y	J	L	I	G	H	T	H	O	U	S	E	I
Y	M	K	I	G	V	U	J	O	J	N	S	T	S	G
D	L	C	O	N	T	I	A	P	O	T	T	E	R	A
R	Y	I	K	P	E	Q	G	J	F	C	E	A	D	T
O	B	U	N	K	E	R	I	N	G	D	N	M	T	I
G	K	R	P	I	R	V	N	E	C	R	K	S	G	O
R	X	B	L	M	B	U	D	R	D	R	G	H	U	N
A	B	D	S	I	M	U	L	A	T	O	R	I	I	S
P	R	N	J	O	J	N	S	F	E	X	G	P	N	K
H	S	K	O	U	N	V	R	G	D	R	O	G	G	L
Y	C	N	O	U	Y	C	O	N	T	A	I	N	E	R

Don't forget to try out the exciting boat navigating game and digital maritime cosplay station at the Explorers' Corner before you leave!

FUN FACT

Bunkering refers to the transfer of marine fuel to ships, and Singapore is the world's top bunkering port with the highest volume in tonnes of bunkers (marine fuel) handled in a port.

VISIT US

9am to 6pm (Tuesdays to Sundays)
Closed on Mondays (except for public holidays)
www.maritimegallery.sg

CONTACT US

+65 6325 5707 | smg@mpa.gov.sg

LET THE VOYAGE CONTINUE

The Maritime and Port Authority of Singapore (MPA) has a number of fun programmes for you to enjoy, so why not take a look? Scan QR code to find out more.



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