

Marine Science  
For Australian Students

# Navigation Worksheets

2nd Edition



SAMPLE PAGE

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# WORKSHEET 1 RESEARCH AND REVIEW

## Questions

1. Who was the first person to sail around the world?

In what century did he complete this feat?

Why was it such a big deal in those days to accomplish this feat?

2. Figure 6.2 shows an early navigation aid. What is it, how was it used and show how it worked.

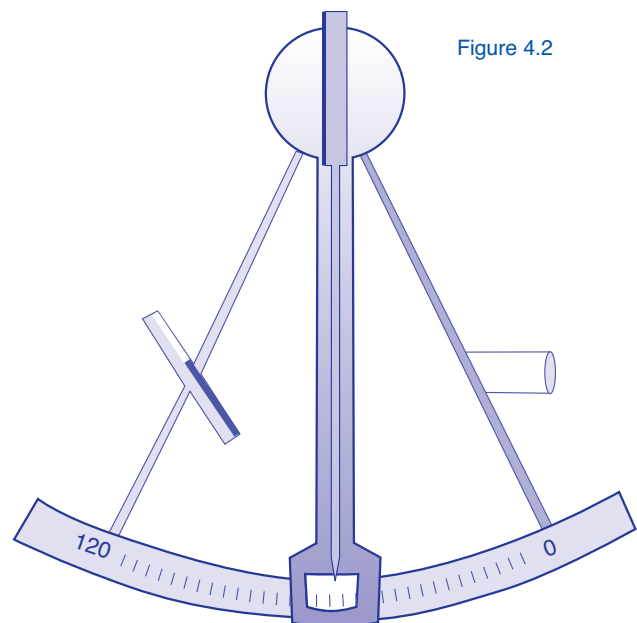


Figure 4.2

3. Make a list of modern navigation equipment that is available for inshore navigation.

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4. Investigate a major maritime disaster that has occurred in the 20<sup>th</sup> century. From your investigations suggest the cause of this accident and how it might have been prevented.

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5. Would you take up the challenge that Jesse Martin did — to sail alone around the world? Why?

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6. A signpost, such as the one shown in Figure 5.1, is rarely found at sea. Why do you believe this is so? Does your group think this type of land/road sign posting should or could be used at sea?

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7. What problems would the modern commercial ships incur when navigating their way through the Great Barrier or Ningaloo Reefs? Suggest ways in reducing the potential danger to our reefs from shipping.

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8. Do you think the government should be spending thousands of dollars in upgrading and enhancing the navigational aids along our coastline? List points for and against your view.

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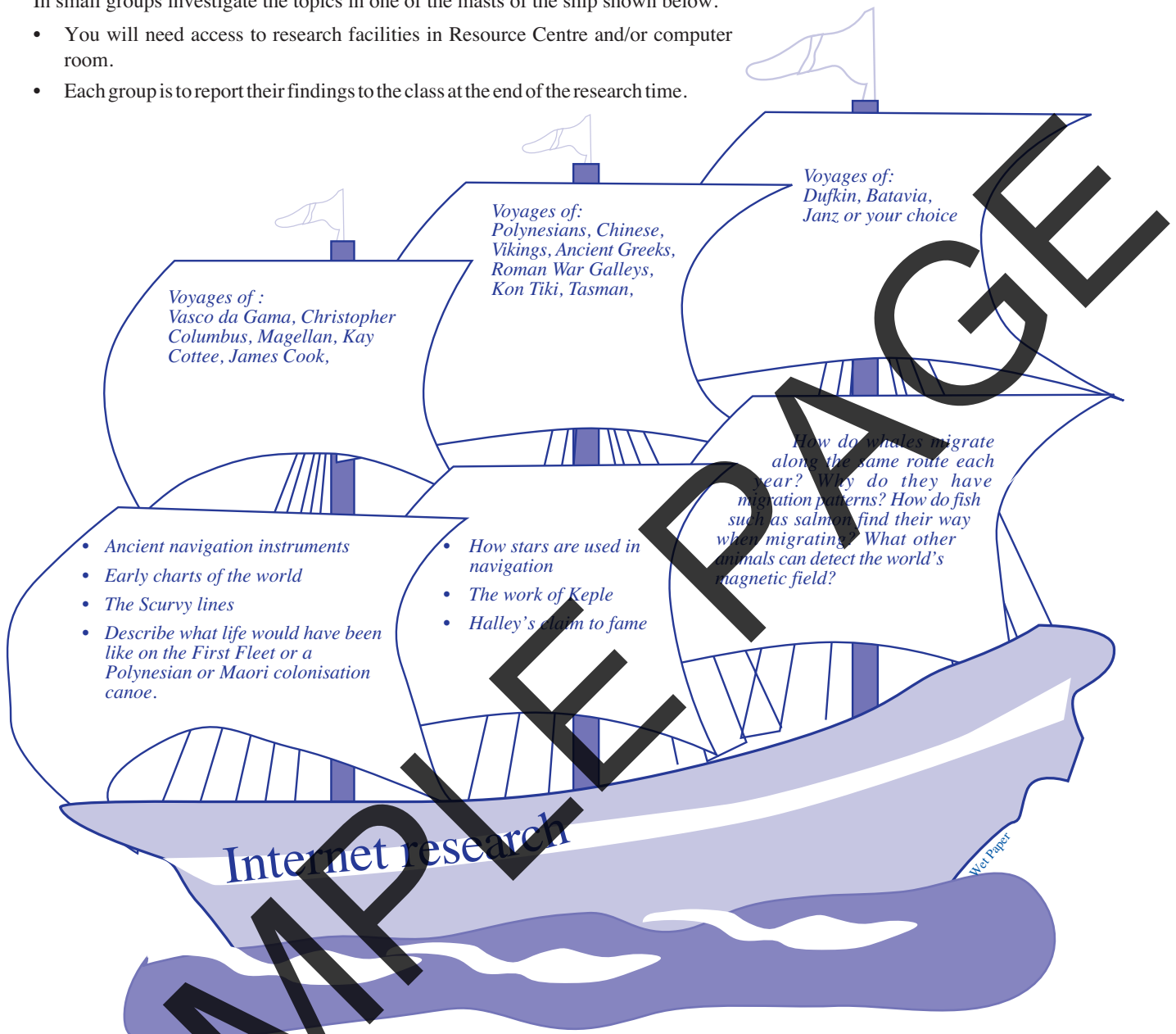


Figure 5.1

# WORKSHEET 2 LIBRARY/INTERNET RESEARCH

In small groups investigate the topics in one of the masts of the ship shown below.

- You will need access to research facilities in Resource Centre and/or computer room.
- Each group is to report their findings to the class at the end of the research time.



## World lateral buoyage system

In 1980, the International Association of Lighthouse Authorities or IALA, agreed to a common code of marking the world's ports. This replaced an old system of lateral marks shown in Figure 6.1 which had two different interpretations.

The new system is now slowly replacing the old system but will rely on education of the boating public to gain acceptance.

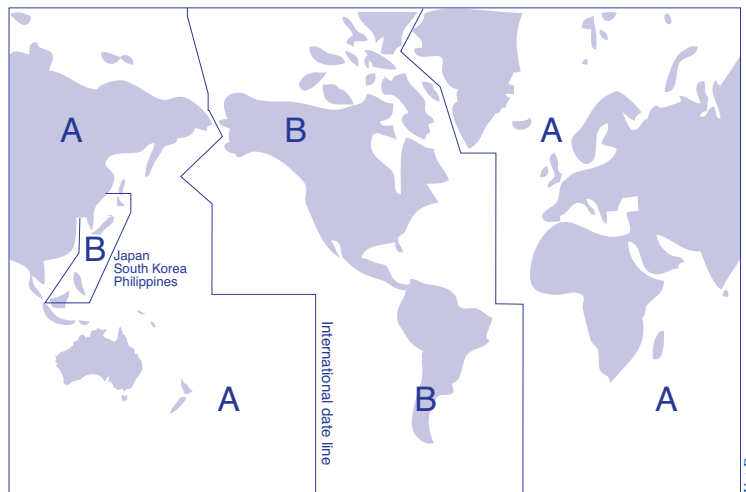


Figure 8.1 The lateral system of world buoyage