

Name: _____

Date: _____

Combating the Dangers at Sea Worksheet

Activity 1 – Tragic Losses at Sea

For each of the following ships, determine which dangers contributed to its loss. The dangers may be used more than once.

Dangers at Sea

Fog **Storm** **Reef** **Fire** **Human Error**
Hurricane **War** **Rock** **Collision** **Iceberg**

| | Ship | Year Lost | Causes of Loss |
|----|---------------------------|-----------|----------------|
| 1. | <i>Mary Rose</i> | | |
| 2. | <i>Lusitania</i> | | |
| 3. | <i>Edmund Fitzgerald</i> | | |
| 4. | <i>Empress of Ireland</i> | | |
| 5. | <i>Estonia</i> | | |
| 6. | <i>Titanic</i> | | |
| 7. | <i>Andrea Doria</i> | | |
| 8. | <i>Dona Paz</i> | | |

Look at the dates and causes of these tragedies. Do you think the dangers have stayed the same throughout history, or have they changed? Explain your answer.

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Activity 2 - Today's Technology

Match each of the following technologies with its description.

- | | |
|---|---|
| ___ 1. nautical charts | A. Equipment that contains a substance that puts out fires. |
| ___ 2. buoy | B. Equipment that sends a distress signal, by radio or satellite, when turned on. |
| ___ 3. lighthouse | C. Tower with a powerful light that is built to guide sailors and warn of danger. |
| ___ 4. global positioning system (GPS) | D. Equipment that allows a ship to communicate with shore or other ships. |
| ___ 5. depth sounder | E. System of satellites that allows a ship to find its exact position on a chart. |
| ___ 6. radio | F. Equipment that can detect ships, land, and storms even during low visibility and darkness. |
| ___ 7. weather fax | G. Maps of water regions that show water depths, land, reefs, submerged objects, channels, buoys, lighthouses, and other markers. |
| ___ 8. radar | H. Inflatable raft that contains survival equipment, food, and water. |
| ___ 9. fire extinguisher | I. Device that can provide extra flotation when worn. |
| ___ 10. life raft | J. Floating marker that can indicate a channel, shallow water, reef, or other danger. |
| ___ 11. personal flotation device (PFD) | K. Suit that can provide extra flotation and warmth when worn. Sometimes called a "Gumby suit." |
| ___ 12. immersion suit | L. Equipment that measures the distance between a ship's hull and the ocean floor. |
| ___ 13. EPIRB | M. Weather image that is sent electronically to a ship's printer. |

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Activity 3 - Thoughtful Application

Choose one of the ships that you examined on the Great Shipwrecks web site.
Chose one that is interesting to you.

Which ship did you choose? _____

Look over your list of Today's Technology (Activity 2). Might any of the technologies listed there have saved the ship? Make a list here of the technologies that you feel could have helped the ship in this situation. Explain why you think the new technology could have saved the ship you chose.

Might any of the technology have saved lives? Make a list here of the technologies that you think could have saved lives in this situation. Explain why you think this technology could have saved lives.
