## Great Science Adventures

## **Lots of Science Library Books**

Each *Lots of Science Library Book* is made up of 16 inside pages, plus a front and back cover. All the covers to the *Lots of Science Library Books* are located at the front of this section. The covers are followed by the inside pages of the books.

## How to Photocopy the Lots of Science Library Books

As part of their *Great Science Adventure*, your students will create *Lots of Science Library Books*. The *Lots of Science Library Books* are provided as consumable pages which may be cut out of the *Great Science Adventures* book at the line on the top of each page. If, however, you wish to make photocopies for your students, you can do so by following the instructions below.

To photocopy the inside pages of the Lots Of Science Library Books:

- 1. Note that there is a "Star" above the line at the top of each *LSLB* sheet.
- 2. Locate the *LSLB* sheet that has a Star on it above page 16. Position this sheet on the glass of your photocopier so the side of the sheet which contains page 16 is facing down, and the Star above page 16 is in the left corner closest to you. Photocopy the page.
- 3. Turn the *LSLB* sheet over so that the side of the *LSLB* sheet containing page 6 is now face down. Position the sheet so the Star above page 6 is again in the left corner closest to you.
- 4. Insert the previously photocopied paper into the copier again, inserting it face down, with the Star at the end of the sheet that enters the copier last. Photocopy the page.
- 5. Repeat steps 1 through 4, above, for each *LSLB* sheet.

To photocopy the covers of the Lots of Science Library Books:

- 1. Insert "Cover Sheet A" in the photocopier with a Star positioned in the left corner closest to you, facing down. Photocopy the page.
- 2. Turn "Cover Sheet A" over so that the side you just photocopied is now facing you. Position the sheet so the Star is again in the left corner closest to you, facing down.
- 3. Insert the previously photocopied paper into the copier again, inserting it face down, with the Star entering the copier last. Photocopy the page.
- 4. Repeat steps 1 through 3, above, for "Cover Sheets" B, C, D, E, and F.

Note: The owner of this book has permission to photocopy the *Lots of Science Library Book* pages and covers for classroom use only.



How does the ocean affect weather?  Veather?  Lots of Science Library Book #12	
THE TABLE	

Wonderful Wonders in the Water

that can trail for almost The Portuguese manhuge animal is made up of almost 100,000 of-war has tentacles 100 feet (30m). This individual animals together. stuck

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underneath hurricanes.

Storm surges occur

when waters rise

floods. Such a surge

devastating coastal

killing about 500,000

people

Bangladesh in 1970,

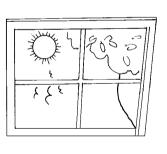
occurred in

high tide, it can bring

reaches land during

If a storm surge

determine the clothes we wear according to of our everyday lives. **The weather is a part** We plan events and the weather.



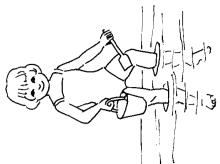
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water in the oceans, lakes, the water vapor, and water ises into the atmosphere water vapor meets cooler water vapor. Water vapor through evaporation. As air, condensation occurs. he cool air cannot hold Heat from the Sun turns ivers, and ground into vapor turns back into water droplets as

orecipitation.



Earth's tropical oceans warms up or cools off hold heat, while the polar waters remain cold all year. Land, depending on the however, quickly seasons.



9

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4

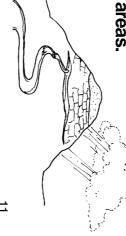


evening, the sand may during the day and remains fairly stable ocean temperature feel cold. However, the beach the same When you return to the



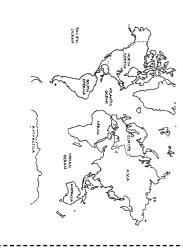
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waters, they pick up over land. As trade winds blowing almost constantly moisture and bring heavy move over warm, tropical regular over oceans than in one direction, are more rainfall to mountainous Trade winds, winds



N

ocean moderates the temperatures on land. temperatures of the The fairly consistent



obvious in coastal areas, to the ocean. temperature, largely due a fairly consistent system, Earth maintains on weather is more other planets in our solar influences all areas of but the ocean also land. Compared to the The effect of the ocean

remain fairly

Ocean temperatures very hot to very cold masses may vary from

Temperatures of land

change slowly. ocean temperatures volume of water that holds such a large atmosphere and weather. The ocean is so vast and role in Earth's The ocean plays a key



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people were killed by a tsunami and can reach 100 ft (30 m) high 2004 in Indonesia, thousands of when entering coastal waters. In called tsunamis. devastating waves ocean may cause Tsunamis move as fast as a jet plane Earthquakes under the

tropical storms that form in the southern Pacific Ocean. Mexico, and eastern Carribean Sea, Gulf of Atlantic Ocean, Hurricanes are severe

from the ocean. evaporation ocean waters and contact with warm and energy through Hurricanes gather heat

the ocean water may may feel warm while sunny day, the sand along the beach on a consistent. If you walk

teel cool.

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