

LIGHTHOUSES

UNIT STUDY



By
Amanda Bennett

UNIT STUDY ADVENTURES (USA) End User License Agreement ("License")

READ THIS END USER LICENSE AGREEMENT ("License") CAREFULLY BEFORE PURCHASING, DOWNLOADING, OR INSTALLING ANY UNIT STUDY ADVENTURES PRODUCT. DOWNLOADING, INSTALLING, OR USING THIS PRODUCT CONSTITUTES AN AGREEMENT TO ABIDE AND BE BOUND BY EACH AND ALL OF THE TERMS OF THIS LICENSE.

This Unit Study Adventures (USA) product purchased by download, CD-ROM or online updates ("Original Product"), printed materials and on-line or electronic documentation relating to the Original Product ("Manuals"), and all copies, reproductions and derivative works relating to or created from the Original Product (individually and collectively, "Unit Study Adventures Product" are copyrighted and protected works belonging to and published by Unit Studies by Amanda Bennett, LLC (individually and collectively, "Licensor"). All rights to the USA Product, other than the limited use rights granted in this Agreement, are specifically reserved and held to and by Licensor.

Use of USA Products is governed by the terms of this End User License Agreement ("License") and any related USA Multi-User License Agreements ("Site Licenses") or private agreements in writing between Licensor and third parties. USA Products are sold and distributed for use by authorized end users ("Permitted Users") according to the terms of the License only. Any person accessing or using USA Products is a "User" bound by this License. Non-permitted uses by Users who are not also Permitted Users constitutes an actionable breach and violation of this License. Unauthorized use, reproduction, copying, sharing, sale, transfer or distribution of USA Products is prohibited.

1. Limited Use License. All use of USA Products is subject to this License, relevant terms of use, and any applicable Site Licenses (collectively, "Other Applicable Agreements"), the terms of which are hereby incorporated into this License by reference as if fully set forth herein. USA Products may be used by Permitted Users only. A "Permitted User" is (a) an individual who has purchased one or more USA Products, (b) an individual who receives one or more unopened, properly purchased USA Products as a gift, (c) individuals who receive licensed copies of USA Products pursuant to a valid Site License, or (d) immediate family members of individuals mentioned in (a), (b) or (c) who also share a residence with such individual. Licensor hereby grants each Permitted User a limited, non-exclusive license to download, save, install and utilize one (1) copy of the purchased USA Products for personal use by the Permitted User and members of the Permitted User's immediate family only. USA Products may be installed on one (1) or more computers or electronic devices belonging to or under the personal control of the Permitted User, provided that the relevant USA Product is used on no more than one (1) computer or electronic device at any given time. Notwithstanding anything in this Agreement to the contrary, a USA Product may be installed and/or used on more than one (1) computer or electronic device simultaneously only if all simultaneous users are siblings and the minor children of a Permitted User who are using the USA Product for simultaneous private homeschooling study or review. Downloading, installation and/or use of USA Products constitutes the user's acceptance of and consent to be bound by this License, all Other Applicable Agreements and applicable law.

2. No Duplication or Resale. Users may make one (1) copy of each USA Product purchased for archival purposes only ("Archival Copy"). Aside from the Archival Copy, Users may not duplicate, copy, photocopy, reproduce, modify, translate, disassemble, distribute, derive or edit source code, or create derivative works based on USA Products, and may not remove any copyright or other notices placed on or in USA Products. Users may not install USA Products on additional computers or electronic devices or make copies of USA Products for purposes of sharing them with additional users other than (a) members of a Permitted User's immediate family who share a residence with the Permitted User, or (b) as permitted by the express terms of a Site License or Other Applicable Agreement between the copier and Licensor. Permitted Users subject to Other Agreements which permit production of additional copies of USA Products may make and/or distribute only the limited number of copies permitted by those Other Applicable Agreements. Failure to comply with the terms of this paragraph constitutes a material breach of this License resulting in immediate, automatic termination of the License, and may subject breaching individuals and entities to civil and/or criminal liability.

3. No Sharing, Transfer or Resale. This License and UNIT STUDY ADVENTURES Products purchased in connection therewith are personal to the original Permitted User(s) and may not be copied, shared or transferred to third parties except as expressly permitted by this License and Other Applicable Agreements, if any. Users may not sell, rent, lease, license, loan, or transfer the USA Products, copies of the USA Products or use of the USA Products to any other person or entity except as expressly permitted by this License or Other Applicable Agreements, if any. Users may not use or exploit part or all of any USA Product for any commercial purpose or in any group educational setting outside the Permitted User's home or individual homeschool without the advance written consent of Licensor. Users are prohibited from selling or reselling USA Products, including without limitation "used," partially used or previously owned USA Products. **Resale of UNIT STUDY ADVENTURES Products without the advance written consent of Licensor constitutes a material breach of this License.**

4. Termination. This License is effective until terminated. Users may terminate the License at any time by (a) destroying or erasing all hard copies of USA Products and (b) removing all USA Products from the User's computer(s), electronic devices and backup drive(s), provided that subsequent purchase, repurchase, installation, reinstallation, and/or use of USA Products constitutes the User's renewed agreement to be bound and abide by this License. Licensor reserves the sole discretion to terminate this License with respect to any User(s) who fail to comply with the terms and conditions of this License and Other Applicable Agreements ("Breaching Users"). Breaching Users must destroy their copies of USA Products and remove USA Products from their computer(s), electronic devices and backup drive(s) immediately upon receipt of notice that Licensor has terminated their License to use the USA Products.

5. Ownership of UNIT STUDY ADVENTURES Products. All ownership rights and title to USA Products, including without limitation copyright, trademark and other intellectual property rights, are the sole property of Licensor and subject to publishing contracts with Unit Studies by Amanda Bennett, LLC. USA Products are protected by the laws of the United States, international laws, treaties and conventions, and other applicable laws. All rights are reserved. USA Products may also contain licensed or protected materials belonging to third parties and used by Licensor with permission from third-party owners ("Third-Party Content"). In the event of any violation of this License or applicable law, the owners of Third-Party Content may enforce their rights separately from or in connection with Licensor.

6. Limited Warranty and Disclaimer of Warranties. Except for the limited warranty contained below, Licensor expressly disclaims any and all warranties on USA Products to the maximum extent permitted by applicable law. USA PRODUCTS ARE PROVIDED "AS IS" WITHOUT ANY WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION IMPLIED WARRANTIES OF CONDITION, DEFECT, USE, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. User accepts all risk associated with or arising out of downloading, installation, use and performance USA Products, provided that Licensor warrants that the USA Products shall be free from material defects in material and workmanship at the time of purchase ("Covered Defects"). In the event a Permitted User provides Licensor with notice of a verifiable Covered Defect, Licensor will either (a) correct the Covered Defect, (b) provide the Permitted User with a replacement product or similar product of equal or lesser value, or (c) refund the Permitted User's purchase price, at Licensor's sole option and discretion. Licensor will not correct or warrant any defect, including without limitation Covered Defects, reported by persons or entities who cannot verify their identity as Permitted Users. THE FOREGOING REPRESENTS THE SOLE, EXCLUSIVE REMEDY FOR THE LIMITED WARRANTY SET FORTH IN THIS PARAGRAPH. EXCLUSIONS, LIMITATIONS AND DISCLAIMERS CONTAINED IN THIS PARAGRAPH DO NOT APPLY TO THE EXTENT PROHIBITED BY APPLICABLE LAW. INDIVIDUALS' RIGHTS MAY VARY BY JURISDICTION.

7. Limitation of Liability. LICENSOR DISCLAIMS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR THE ACCURACY, INACCURACY, LEGALITY, RELIABILITY, OPERABILITY, FUNCTIONALITY, AVAILABILITY AND CONTENT OF USA PRODUCTS. LICENSOR DISCLAIMS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR DAMAGES CAUSED BY, ARISING OUT OF, RESULTING FROM, OR RELATING TO USA PRODUCTS OR ANY PERSON DISPLAYING, UPLOADING, DOWNLOADING, INSTALLING, ACCESSING OR USING USA PRODUCTS. LICENSOR DISCLAIMS ANY AND ALL RESPONSIBILITY AND LIABILITY FOR ERRORS, OMISSIONS, SUSPENSION, DELETION, MISDELIVERY OR UNAVAILABILITY OF COMPUTER HARDWARE, SOFTWARE AND OTHER PERSONAL PROPERTY BELONGING TO ANY PERSON OR ENTITY. LICENSOR WILL NOT BE RESPONSIBLE OR LIABLE FOR ANY DAMAGES, INCLUDING WITHOUT LIMITATION ACTUAL, DIRECT, INDIRECT, INCIDENTAL, SPECIAL AND CONSEQUENTIAL DAMAGES, CAUSED BY, RESULTING FROM OR ARISING OUT OF (A) USE, MISUSE OR LACK OF USE OF USA PRODUCTS, (B) MATERIAL, INFORMATION, ADVICE, GOODS OR SERVICES LEARNED, PURCHASED OR OBTAINED THROUGH OR AS A RESULT OF USA PRODUCTS, OR (C) ANY OTHER CAUSE, EFFECT, ACTION, CONSEQUENCE OR DAMAGE NOT DIRECTLY CAUSED BY OR RESULTING FROM THE WILLFUL MISCONDUCT OF LICENSOR. EXCLUSIONS AND DISCLAIMERS CONTAINED IN THIS LIMITATION OF LIABILITY DO NOT APPLY TO THE EXTENT PROHIBITED BY APPLICABLE LAW. THE RIGHTS OF USERS MAY VARY BY JURISDICTION.

8. Export Controls. USA Products may not be exported or downloaded to or into any country or territory (a) to which the United States has embargoed goods or (b) where USA Products are prohibited by applicable laws. Purchasing, downloading and installing USA Products constitutes the User's agreement to the terms of this paragraph, as well as a representation and warranty that the User is not located in, under the control of or a resident of any such country or territory.

9. Equitable Remedies. All Users hereby agree that Licensor would be irreparably damaged if the terms of this License Agreement were not specifically enforced, and further agree that Licensor shall be entitled to file for, request and obtain any and all available legal and/or equitable remedies to prevent, enforce and redress breaches of this License without bond, security, or proof of damages, even if similar damages would not be available to the opposing party. In the event litigation is brought in connection with this License Agreement, the prevailing party shall be entitled to recover from the other party all the costs, attorneys' fees and other expenses incurred by such prevailing party in the litigation. A party need not recover an award of money damages to be considered a "prevailing party" for purposes of this paragraph.

10. Modifications. Licensor reserves the sole, discretionary right to update, modify or change this License and Other Applicable Agreements at any time, with or without cause or advance notice. Updates, changes, modifications, additions, supplements and deletions to and from the terms and conditions of this License and Other Applicable Agreements are effective upon implementation. Downloading, installing and using USA Products following changes to the License or Other Applicable Agreements constitutes the User's acceptance of any and all such changes.

11. General Terms. This License, together with any Other Applicable Agreements, represents the only, final, complete and exclusive understanding between User(s) and Licensor and supersedes any prior or contemporaneous oral or written agreements. In the event of any conflict or disagreement between this License and Other Applicable Agreements, the terms of this License will control. User and Licensor have no relationships, agreements, and User has no rights relating to USA Products, except as expressly stated in this License. This License may only be modified by a written instrument approved in writing or executed by an authorized representative of Licensor which specifically states that it modifies this License. This License was written in and will be construed and enforced in accordance with the laws of the State of Texas. User agrees to submit to the personal jurisdiction of the Federal or state courts located in Texas for purposes of any legal action commenced under or arising out of this License, Other Applicable Agreements or applicable laws, as well as actions arising out of or relating to any USA Products. Nothing in this License will be interpreted to require the commission of an illegal act or a violation of applicable law. If any conflict arises between this License and applicable law the law will prevail, the relevant provisions of the License will be deleted, modified or limited to the extent necessary to comply with law and all other provisions of the License will remain in full force and effect. Notices must be made in writing. Licensor may provide valid, effective notice to Users by posting or broadcasting notices on Licensor's website or related websites owned and operated by either or both Licensors. Notices posted on websites are deemed given when posted. Failure to enforce any provision of this License does not and will not constitute a waiver of the right to enforce the same or any other provision against the same or any other User or third party in any subsequent situation. Any provisions which are reasonably required in order to fully enforce this License will survive its termination. All rights reserved.

12. Acceptance by User. Each User understands and agrees to each and every one of the terms of this License and Other Applicable Agreements as if the User had signed a written document containing the same.

Find more fun-to-use learning tools at UnitStudy.com.

© 2015 Amanda Bennett

Published by Unit Studies by Amanda Bennett, LLC
P.O. Box 505, Dunlap, TN 37327

All Rights Reserved.

No part of this book may be reproduced or used in any form without written permission from the publisher. **The original purchaser is hereby granted permission to print the pages for use with the original purchaser's children.**

This published work may contain facts, views, opinions, statements, recommendations, hyperlinks, references, websites, advertisements and other content and links or references to external sources (collectively, "Content") not owned or controlled by AMANDA BENNETT or UNIT STUDIES BY AMANDA BENNETT, LLC (individually and collectively, "Owner and Publisher") This Content does not necessarily reflect the views, opinions or recommendations of Owner and Publisher, and any reliance upon such Content is taken at the user's sole risk. Owner and Publisher, along with the individual contributors, have made reasonable efforts to include accurate, current, "family-friendly" Content, but Owner and Publisher make no warranties or representations as to the accuracy, safety or value of Content contained, published, displayed, uploaded, downloaded or distributed through or as part of this publication and assumes no liability or responsibility for the content of linked or referenced sources or for errors or omissions in Content. Users are advised that online content, and the user's experience, may change during use or over time, and are strongly advised to use discernment and wisdom when considering advice and recommendations made in this or any other published work. Owner and Publisher accept no responsibility for the actions of third parties or for Content provided, uploaded, linked or posted by third parties.

Scripture taken from the Holy Bible, New International Version®, NIV® Copyright © 1973, 1978, 1984, 2011 by Biblica, Inc.® Used by permission. All rights reserved worldwide.

The "NIV" and "New International Version" trademarks are registered in the United States Patent and Trademark Office by Biblica. Use of either trademark requires the permission of Biblica.

***This book is dedicated with
gratitude to those who have
endured the challenging work
and isolation of lighthouse life
for the safety of those upon the
sea.***



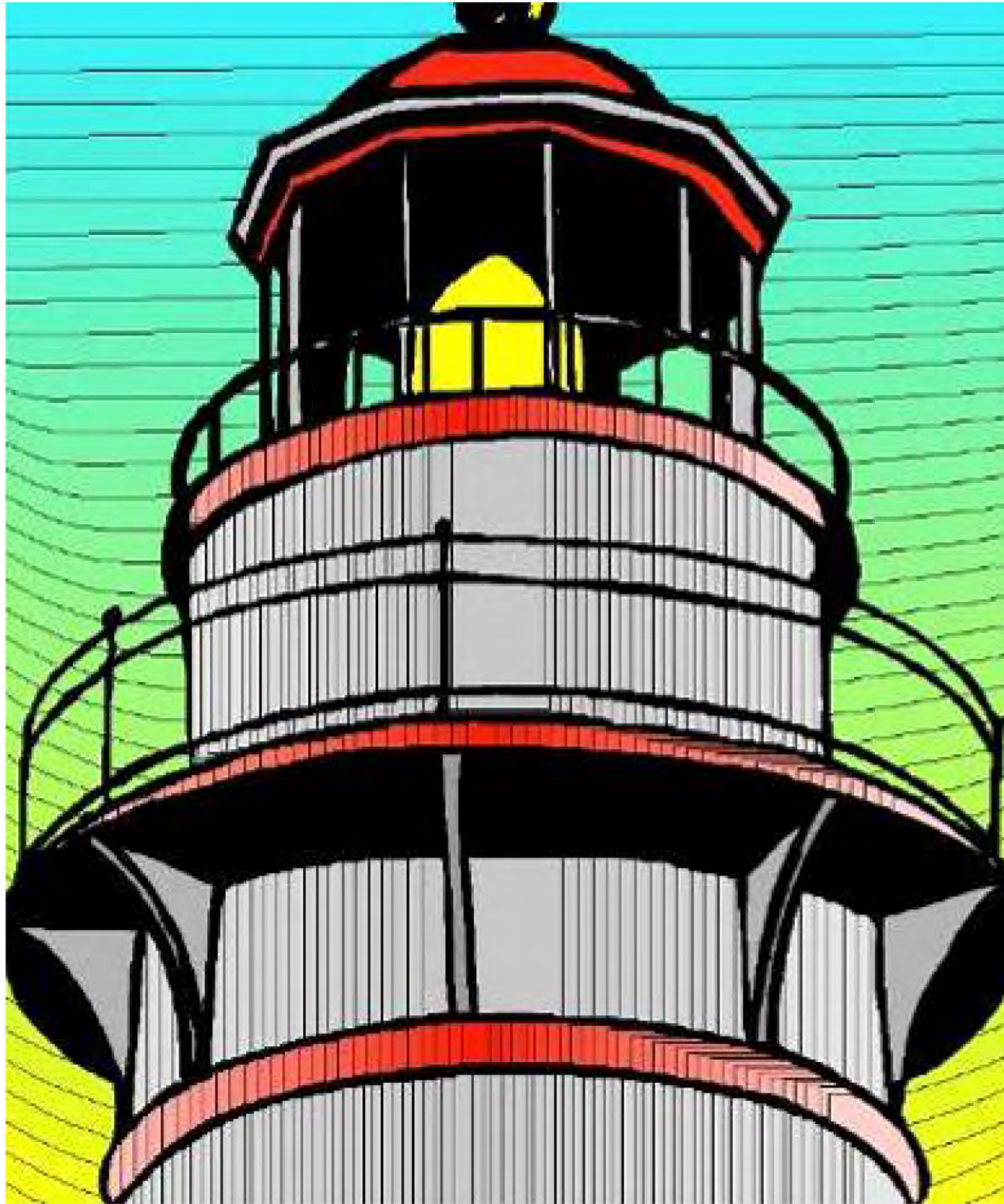
***“Brightly beams our Father’s mercy
From His lighthouse evermore,
But to us He gives the keeping
Of the lights along the shore.”***

***From Let the Lower Lights Be Burning
By Philip P. Bliss, 1871***

Table of Contents

Unit Studies – The Easy Way	7
Getting Started	9
Introduction	11
Favorite Books & Videos	12
Family Project Ideas	16
Lighthouses – Week One	18
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Lighthouses – Week Two	33
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Lighthouses – Week Three	47
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Lighthouses – Week Four	61
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Appendix	79
Thoughts on Lighthouses from Amanda	80
<i>How the Light-House Lamp Was Lighted</i>	81
<i>Heroism in the Lighthouse Service</i>	85
<i>Life in a Lighthouse</i>	92
Favorite Quotes and Scripture for	99
Lighthouses <i>Sea Fever</i>	101
<i>The Lighthouse</i>	102
<i>The Watch of Boon Island</i>	104
Lighthouses Notebooking Pages	105

[Captain January](#), a fun video for the whole family. Starring Shirley Temple, the movie is about a young girl that is rescued and raised from infancy by a lighthouse keeper.



FAMILY PROJECT IDEAS

1. Make an edible family project! Get the family together to design and build a lighthouse cake! Keeping your camera handy, challenge the family to design a lighthouse using cake(s) made with baking pans that you have on hand. For example, using a 9X13 sheet cake, cut into 2 long rectangles to form the light tower. Have everyone pitch in with the baking, cutting, icing, and decorating the cakes. Use things like licorice and other candies for the details—take a picture! Then, enjoy the fruits of everyone's labor.
2. For an outdoor adventure, find a standard flashlight (that works), a watch with a seconds indicator, and take everyone outside on a comfortable evening. If it is too hot or there are too many insects outside, you can try this in the basement or even the hall! Using the flashlight, have your children “flash” the light characteristics of some of their favorite lighthouses. Have one person be the light “keeper” and the others can stand at a distance, watching for the light. Ask them if they can see any difference in the characteristics of the lights. If they don't know the characteristics, here are a few that they can try:
 - Beavertail Light (NH):** Flashes white light every six seconds
 - Block Island (North) Light (NH):** Flashes white light every 5 seconds
 - Annisquam Harbor Light (MA):** White flash every 7.5 seconds
 - Bodie Island Light (NC):** White 2.5 seconds on, 2.5 seconds off, 2.5 seconds on, and 22.5 seconds eclipse with 2 cycles each minute.
3. This project is an ongoing project that will be fun and provide entertainment throughout the study and for years after it is finished. In this project, your family will work together to create a Lighthouse Tablecloth. The only materials that you will need are some permanent markers and an inexpensive white twin sheet. To begin the tablecloth—have someone draw a U.S. or world map in the center of the sheet, remembering that these markers will bleed through to the surface below. Make sure that any drawing is done with a plastic garbage bag or freezer paper between the cloth and any other surface to keep the ink from bleeding through. As you work through this unit, have the students locate and write the name of the lighthouse they study beside its approximate location on the map. They can also use this cloth to write their Words of Wisdom (spelling/vocabulary words), sketch some of their favorite lighthouses, diagram a lighthouse and label its parts, and more. Have the students trace their hands on the cloth and sign their name and age below the hands—fun to look back on! Your family will have a lighthouse tablecloth to use at the end of each week of the study, as well as at the end of the unit, to show off what they've learned! It also makes a fun tablecloth for family get-togethers as well as for review days in the years to come.

4. Plan the ultimate field trip throughout this unit, working together to identify any lighthouses that are in your area or ones that your family could visit on a day or weekend trip. Put together this list and have the students contact the caretakers of these lights -- asking for travel information, directions, hours of operation, etc. If you are a member of the American Automobile Association (AAA), consider checking with their travel planning department to request more information about the lighthouses that you are interested in visiting. Then, plan a trip to one or more of these lighthouses, having the students develop a travel route, budget, etc. Take along a camera and have a wonderful time visiting the lighthouses. You will all be making wonderful memories and developing an even better understanding of their function as well as their beauty. If you are looking for a lighthouse that offers guest accommodations, visit this website: [Lighthouses With Guest Accommodations](#)



Cockspur Island Lighthouse, Georgia

Lighthouses - Week One

This week will serve to introduce the student to lighthouses – what they are and how they work.

Learning Objectives

- ❖ Become familiar with the idea of a lighthouse
- ❖ Understand the importance and purpose of the light
- ❖ Learn the main parts of a lighthouse and their function
- ❖ Study the basic concept of how light is obtained and projected in a lighthouse
- ❖ Become familiar with some of the terms that are used to describe the light



Key West Lighthouse 1894

Lighthouses: Week One – Day 1

What is a lighthouse, and why do we have them? Today, we will spend some time becoming familiar with lighthouses and learning some of the basics.

LOWER LEVEL

Today's Quote

Carefully copy today's quote into your Lighthouse Journal:

"Then God said, 'Let there be light;' and there was light."

Genesis 1:3

Words of Wisdom (WOW Words)

Look up the following words in the dictionary and write the words and their definitions in your Lighthouse Journal. **Website suggestions:** [Webster's 1828 Dictionary](#) and [Word Central](#)

light
fire
tower
lamp

Interesting People and Places

Using an encyclopedia or Internet site, look up **Boston Lighthouse** on Little Brewster Island. What did you find? This is the last American lighthouse that still has a keeper living at the light! Write or narrate a paragraph about the Boston Light for your Journal, and draw the lighthouse beside your paragraph. **Website suggestions:** [Boston Lighthouse](#) and [Photo of Boston Lighthouse](#)



Read and Discover

Using an encyclopedia, book, or Internet site, read the following questions and find the answers. Write your answers in your journal.

1. Look up the word **lighthouse** and write the definition in your journal.
Website suggestions: [Webster's 1828 Dictionary](#) (enter the word "light-house" in the search box) and [Word Central](#)
2. Using the Internet site listed or books that contain pictures of lighthouses, look at several different lighthouses. How are they alike, and how are they different? In your Journal, draw one of the lighthouses that you found and write the location and name of the lighthouse by the drawing. **Website suggestion:** [Photo Gallery of Lighthouses, by Region](#)
3. Take a moment to think about how important light is to you around your house. What do you think life would be like at your house if there were no lights at night? For the same reasons, lighthouses are very important to ships and sailors!

Lighthouses: Week One – Day 1

UPPER LEVEL

Today's Quote

Copy today's quote into your Lighthouse Journal:

***"Then God said, 'Let there be light;' and there was light.
And God saw the light, that it was good;
and God divided the light from the darkness."***

Genesis 1: 3-4

Words of Wisdom (WOW Words)

Look up the following words in the dictionary and write the words and their definitions in your Lighthouse Journal. **Website suggestions:** [Webster's 1828 Dictionary](#) and [Dictionary.com](#)

light
lantern
navigation
bonfire

Interesting People and Places

Using an encyclopedia or Internet site, look up **Pharos of Alexandria**. Why was this structure important and where was it located? Summarize your answer in a paragraph in your Journal and sketch the tower beside your answer. **Website suggestions:** [The Lighthouse of Alexandria](#), [Light of Alexandria](#), and [Pharos of Alexandria](#)

Read and Discover

Using library books, encyclopedias, or Internet sites, find the answer to these questions and record your answers in your Journal along with the source of your information.

1. Look up the word **lighthouse** and write the definition in your journal.
Website suggestions: [Webster's 1828 Dictionary](#) (enter the word "light-house") and [Dictionary.com](#)
2. How tall do historians believe the Pharos tower was, and how was light produced at the top of the tower? **Website suggestions:** [The Great Lighthouse at Alexandria](#) and [Light of Alexandria](#)
3. George Worthylake was America's first paid lightkeeper. Can you determine which lighthouse he maintained, and how did his term as lightkeeper end? **Website suggestion:** [George Worthylake](#)
4. What famous American statesman wrote a poem about this tragedy?
Website suggestion: [George Worthylake](#)
5. What part of the American government now has the responsibility of maintaining the lighthouses? **Website suggestion:** [US Lighthouses](#)