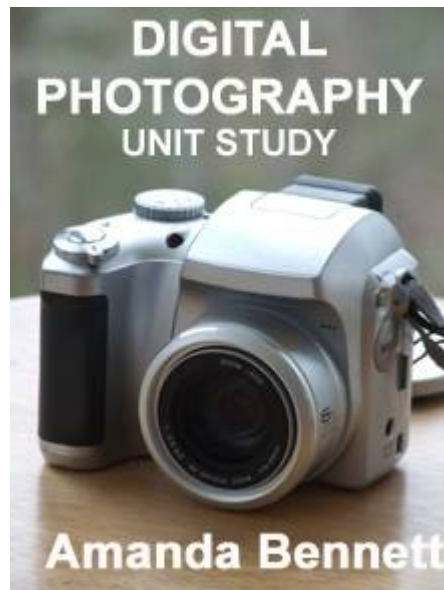


DIGITAL PHOTOGRAPHY UNIT STUDY



**By
Amanda Bennett**

Unit Studies by Amanda Bennett, LLC

Unit Study Adventures (USA) End User License Agreement (“License”)

READ THIS END USER LICENSE AGREEMENT (“License”) CAREFULLY BEFORE PURCHASING, DOWNLOADING, OR INSTALLING ANY USA PRODUCTS. DOWNLOADING, INSTALLING, OR USING USA PRODUCTS CONSTITUTES AN AGREEMENT TO ABIDE AND BE BOUND BY EACH AND ALL OF THE TERMS OF THIS LICENSE.

This Unit Study Adventures 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, “USA Products”) are copyrighted and protected works belonging to AABennett Books, Inc. and published by Unit Studies by Amanda Bennett, LLC (individually and collectively, “Licensor”). All rights to the USA Products, 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 USA 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 USA 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 USA Products. All ownership rights and title to USA Products, including without limitation copyright, trademark and other intellectual property rights, are the sole property of AABennett Books, Inc. 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 Other Books by Amanda Bennett at:
www.UnitStudy.com

Copyright 2011 by 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, AABENNETT BOOKS, INC., 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®. Copyright © 1973, 1978, 1984 Biblica. Used by permission of Zondervan. All rights reserved.

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.

TABLE OF CONTENTS

Unit Studies – The Easy Way	6
Getting Started	8
Introduction	10
Amanda’s Tips on Search Engines	12
Favorite Books	13
Family Project Ideas	18
Digital Photography - Week One	19
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Digital Photography - Week Two	35
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Digital Photography - Week Three	53
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	
Digital Photography - Week Four	72
Learning Plans, Day 1 – Day 4	
Weekly Windup	
Additional Internet Sites	

INTRODUCTION

Capturing precious moments – the first smile, the first step, the first solid food, the first lost tooth, and so many more – these are just a few of the moments that many parents try to capture on camera to treasure for years to come. With the advent of digital photography, and the lowering of prices so that it is now within affordable reach, many families are using digital cameras to take pictures of all kinds of moments, friends and family, and special occasions. With the ease of use and affordability of taking digital pictures, parents are also finding that their children are very interested in learning to use this new technology. By studying digital photography in a unit study, they can learn about the science and history of the art of photography, along with some of the inventors in this great adventure.

This study has been written to address these areas, as well as learning about photography itself, the basics of digital cameras, photo composition, and much more. Some of the topics covered include:

- Discovery and development of the camera
- Science of photography, including light and lenses
- History of the development of cameras and photography
- Famous photographers and their art

Cameras have been around for a long time – even Aristotle understood the principle behind the pinhole camera. The history of photography is rich and colorful, and the people involved in this timeline are just as interesting. From Matthew Brady capturing the Civil War with his camera to George Eastman and his new business to Ansel Adams showing the world the beauty of Yellowstone, the people involved in the development and use of the camera make an interesting tapestry for learning.

This study will help familiarize the student with a digital camera. For a younger student, I strongly recommend close adult supervision if they are not responsible enough to safely use a camera on their own. This study includes many picture-taking projects that lead the student to be more aware of the wonder of their surroundings and the way to use the camera to capture this.

If you are like I was, you probably have some questions of your own about how a digital camera works. These might include:

- Just exactly what is resolution and what are pixels?
- What is the difference between optical and digital zoom?
- Which file format is right for our photos?
- What is meant by composition when talking about photographs?
- What are all of these settings for on our camera?

This study will help find the answers to these questions and many more. We will be looking at the basics of how a digital camera works, and how to use one to capture the things that your student would like to photograph. Use this study to learn about digital photography as a family. From back yard photography scavenger hunts to creative family portraits, let the fun and learning begin!

PARENTS and TEACHERS: Make sure that your child knows to **NEVER** look at the sun directly with a camera! Take the time to go over points of safety with them about this and any other safety issues that they need to be remember when using a camera. Explain that they need to be aware of their surroundings when taking pictures for possible hazards, like oncoming traffic, dangerous locations, cornering moody animals, angry bees, etc. I can't overemphasize this – make **sure** they know to be aware of their own safety!

FAMILY PROJECT IDEAS

1. Create a visual dictionary with your own photographs. All you'll need is a dictionary and a digital camera. You can look up words for free at www.dictionary.com. Select random words from the dictionary or have your kids write up a word list. Have them write each word on a chalk board or paper and then take a photo, one by one. As they assemble the visual dictionary, the kids can also learn about alphabetical order.

Older kids may enjoy searching around the backyard, your neighborhood, in the park, or even in town for items to photograph to illustrate words for their visual dictionary.

2. Instead of using text for a family tree – how about a photo family tree! It works like a traditional family tree, starting with the child, the first branch lists mom and dad...the next branch mom and dad's parents, and so on.

3. Design your very own photo dolls. Yes, it is a spinoff of the nostalgic paper dolls which aren't seen much anymore probably due to the availability of fashion dolls and the paper dolls with magnets. The idea is the child takes a picture of a favorite doll, a person, or an animal – basically whatever she wants. Then, you print the photo and carefully cut out the image outline. Using a stick of glue, you mount the cut-out on felt to keep it from tearing as easily. Using this under regular computer paper, the child can then draw fashions that she can wrap around her photo doll.

4. Make a list of assorted objects you find around your house, yard and neighborhood. Divide kids into teams and provide a camera for each team. The first team to return with a photo of everything on the list wins.

5. Let your children make photo journals of their daily routines. Have them take photos of the things they do during their day, such as playing with friends, reading, eating snacks and going to bed. This activity is great for weekends and summer days when the kids aren't in school.

6. Turn the kids loose with a camera to take pictures for a photo book (similar to a scavenger hunt but with a book product)– for example take photos for a counting book, a book about colors or take photos of groups of objects and create an "I Spy" book.

7. Have your child take photos during a special outing such as going to the zoo and then create a collage with his favorite images. Next, have him write a story to accompany the pictures – now share your wonderful outing adventures with family and friends!

Digital Photography -- Week One

Objectives

- Learn about the beginning of photography
- Investigate some of the early photographs and their origins
- Study the inventors involved in the development of the camera
- Become familiar with the basic elements of a camera



Digital Photography: Week One – Day 1

LOWER LEVEL

Today's Quote

Copy today's quote into your Journal:

**“This is my Father's world: He shines in all that's fair;
In the rustling grass I hear Him pass;
He speaks to me everywhere.”**

Maltbie D. Babcock

Words of Wisdom (WOW Words)

Look up the following words in the dictionary and write the words and their definitions in your Journal. **Website suggestions:**

[Webster's 1828 Dictionary](#), [Word Central](#), and [Digital Photography Glossary](#)

**picture
frame
flash**



Interesting People and Places

Using a book, encyclopedia, or Internet site, look up **Joseph Niépce**. Who was he and what famous thing did he create that begins the history of photographs? Write or narrate the answers for your Journal. **Website suggestions:** [Niépce](#), [Niépce](#), and [History of Photography](#)

Read and Discover

Using an encyclopedia, dictionary, book, or Internet site, read the following questions and find the answers. Write or narrate your answers for your Journal.

1. In your own words, describe the meaning of the word **photograph**. Write your description in your Journal.
2. What is the definition of **photograph**? Write it in your Journal. **Website suggestion:** [Photograph](#)
3. What is a camera? **Website suggestion:** [Camera](#)
4. Before photography, how did people make a record of what people and places looked like?
5. Today, you are going to draw a sketch of the front of your digital camera, and then label the main parts of the camera on the sketch. **Website suggestion:** [Typical Parts of a Digital Camera](#)

Internet Resource

[How to Use a Digital Camera](#)

Digital Photography: Week One – Day 1

UPPER LEVEL

Today's Quote

Copy today's quote into your Journal:

**“This is my Father's world: He shines in all that's fair;
In the rustling grass I hear Him pass;
He speaks to me everywhere.”**

Maltbie D. Babcock

Words of Wisdom (WOW Words)

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

focus
frame
effect

Interesting People and Places

Using an encyclopedia, or Internet site, look up **Joseph Nicéphore Niépce**. Who was he, and what famous first is he credited with? His name was given to a special geological feature on something in our solar system – what was it? Summarize your answers in your Journal. **Website suggestions:** [Niépce](#), [Niépce](#), and [History of Photography](#)

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 (book, encyclopedia, website, etc).

1. Who was Aristotle and how is he involved in the history of photography?
Website suggestions: [Aristotle](#) (select “Significant Processes” and then select “Camera Obscura”), [Aristotle](#), and [Aristotle](#)
2. Before the introduction of photography, how did people record the visual images of portraits and landscapes? How did artists react to the introduction of photography? Do you think that their reaction was reasonable? **Website suggestion:** [Artists and Photography](#)
3. Draw a detailed sketch of the front of your digital camera in your Journal, and label each part of the camera. Write a description of the function of each part in your Journal. **Website suggestion:** [Typical Parts of a Digital Camera](#)
4. In your own words, describe the development of the camera from the days of Aristotle to modern times in two or three paragraphs. **Website**

suggestions: [History of Photography Timeline – National Geographic](#)
and [Development of the Camera](#)

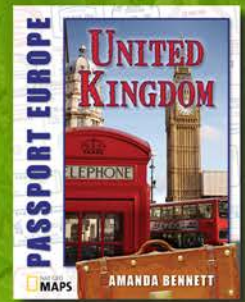
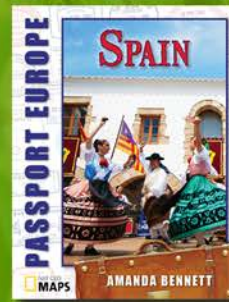
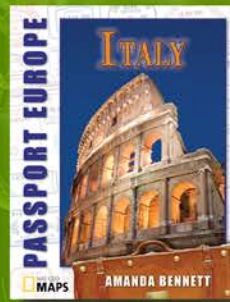
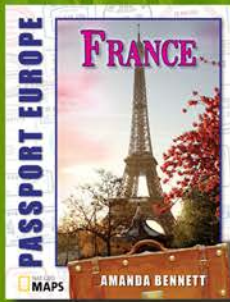
Internet Resource

[How to Use a Digital Camera](#)

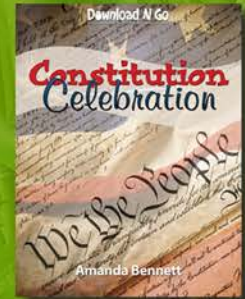
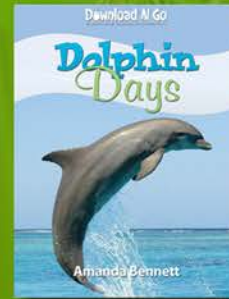
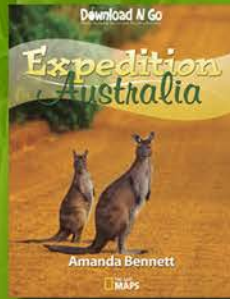
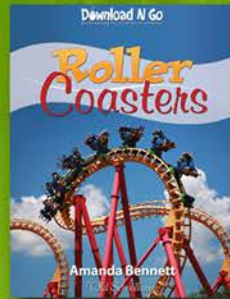
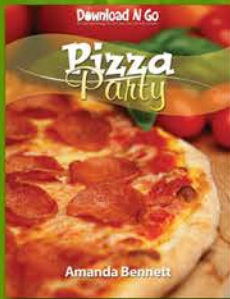
EXPLORE THE WORLD

with Amanda Bennett

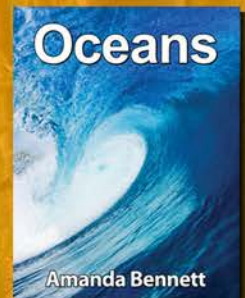
PASSPORT GEOGRAPHY: One-Week Unit Studies, Grades K - 12



Download N Go: One-Week Unit Studies, Grades K - 4



Unit Study Adventures: Four-Week Unit Studies, Grades K - 12



Unit Study.com

Your Passport to Learning Adventures!

"Like"
Us!

