

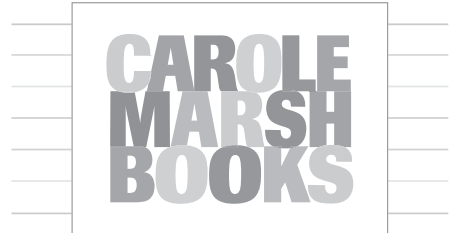
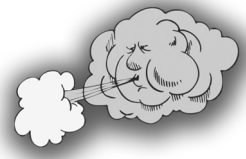


The Mystery at  
**KILL DEVIL  
 HILLS**

**Teacher's Guide**

by  
**Carole Marsh**

Editor: Jenny Corsey • Art & Design: Lynette Rowe



**GALLOPADE  
 INTERNATIONAL**

P.O. Box 2779 • Peachtree City, GA 30269  
 Tel: (800) 536-2438 • Fax: (800) 871-2979  
 email: [orders@gallopade.com](mailto:orders@gallopade.com)  
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#1 THE MYSTERY OF BILTMORE HOUSE



#2 THE MYSTERY AT THE BOSTON MARATHON



#3 THE MYSTERY OF BLACKBEARD THE PIRATE

#4 THE MYSTERY OF THE ALAMO GHOST

#5 THE MYSTERY ON THE CALIFORNIA MISSION TRAIL



#6 THE MYSTERY OF THE CHICAGO DINOSAURS



#7 THE WHITE HOUSE CHRISTMAS MYSTERY

#8 THE MYSTERY ON ALASKA'S IDITAROD TRAIL

#9 THE MYSTERY AT KILL DEVIL HILLS



#10 THE MYSTERY IN NEW YORK CITY

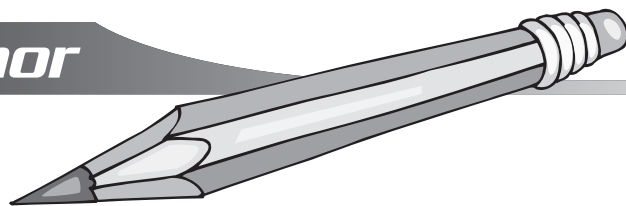


#11 THE MYSTERY AT DISNEY WORLD

#12 THE MYSTERY ON THE UNDERGROUND RAILROAD



## A Word from the Author



### Dear Teachers,

In 1979, I began writing children's mysteries set at historic sites that still existed—primarily so that kids could go and see what they had read about. Frankly, I found no more fun, educational, and stress-free (actually, just plain joyful!) activity to do with my then school-age children than to visit a fascinating historic site!

The Outer Banks of North Carolina hold so much natural beauty and interesting history that everyone should visit them at least once. The 2003 flight centennial celebration is sure to attract thousands of visitors from around the world. Even if you can't go, you can fly over the sand dunes with these adventurous mystery characters.

Yes, Kill Devil Hills is a tourist attraction, but it's also one gigantic history lesson. At every site, I tried to introduce the who, what, when, where, why, and how of the places. Not only has it been surprising to me how fascinated the kids are in real life, but it is amazing to also witness the depth of their interest. The first set of these magical experiences eventually transcended into a lifelong ongoing connection between me and my children.



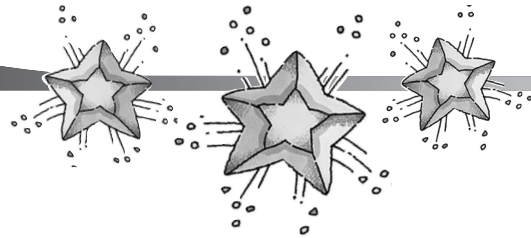
We learned a lot, but what we learned best is that kids and adults can learn together. Reading and going and seeing and doing is what education is all about, and most especially, that "adopting" a subject or place leads to a lifelong interest in an era, a place, the people, and all the fascinating facts that made up their lives. We learned that history is still "living" and is not lost on kids! In fact, it is quite a revelation!

Enjoy your Kill Devil Hills mystery and studies,

*Carole Marsh*



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As a mother and an author, one of the fondest periods of my life was when I decided to write mystery books for children. At this time (1979) kids were pretty much glued to the TV, something parents and teachers complained about the way they do about video games today.

I decided to set each mystery in a real place—a place kids could go and visit for themselves after reading the book. And I also used real children as characters. Usually a couple of my own children served as characters, and I had no trouble recruiting kids from the book's location to also be characters.

Also, I wanted all the kids—boys and girls of all ages—to participate in solving the mystery. And, I wanted kids to learn something as they read. Something about the history of the location. And I wanted the stories to be funny.

That formula of real+scary+smart+fun served me well. The kids and I had a great time visiting each site and many of the events in the stories actually came out of our experiences there. (For example, we really did stick our toes in the cold ocean, climb Jockey's Ridge, and see *Flyer* for ourselves!)

I love getting letters from teachers and parents who say they read the book with their class or child, then visited the historic site and saw all the places in the mystery for themselves. What's so great about that? What's great is that you and your children have an experience that bonds you together forever. Something you shared. Something you both cared about at the time. Something that crossed all age levels—a good story, a good scare, a good laugh!

30 years later,

*Carole Marsh*



## Outer Banks Information

### **Cape Hatteras National Seashore**

Manteo, NC • (252) 473-2111  
The park is open year-round. Visitor center is open from 9 a.m. to 5 p.m. daily, September through May (except for Christmas) and 9 a.m. to 6 p.m. in the summer. Fees are \$4 for adults and \$2.00 for children to climb the lighthouse. Lighthouse tours begin at 9 a.m. daily and run every 20 minutes, limit of 60 visitors per tour.

### **Fort Raleigh National Historic Site**

Manteo, NC • (252) 473-5772  
No admission charge. Open year around (except Christmas Day) from 9:00 a.m. to 5:00 p.m. The Lost Colony outdoor symphonic drama runs nightly (except Sundays) from early June to late August.

### **North Carolina Aquariums**

Roanoke Island, Pine Knoll Shores, Fort Fisher  
(919) 733-2290  
Aquariums at all three sites are open from 9 a.m. to 5 p.m. daily. Free admission to registered school groups.

### **Elizabeth II ship**

Manteo, NC • (252) 473-1144  
Sixty-nine foot, square-rigged sailing ship. Open year round. Admission is charged.


### **Elizabethan Gardens**

Manteo, NC • (252) 473-3234  
Admission is charged. Open daily in fall, winter, spring from 9 a.m. to 5 p.m. and daily June through Labor Day from 9 a.m. to 8 p.m.



**Chapter Subject**

**EXPLORE!**

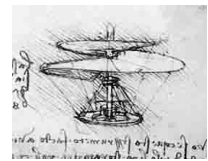
- 1 Career How do pilots get a license? What kind of training do pilots need?
  
- 1 Science Where is Kitty Hawk? Why did the Wright Brothers, who were from Dayton, Ohio, travel there for their first flight?
  
- 1 Flight As a class, compile a list of a few different types of planes (old and current) on the board.
  
- 1 History What is the significance of the plane's name? If you could name an airplane, what would it be named?
  
- 1 Vocabulary What does gallivant [to travel, move about, or roam for pleasure] mean?
  
- 1 Society What is a Tarheel? What does that word stand for in North Carolina?
  
- 1 Geography  Where do you live? Would you like to live at the beach, in the mountains, on an island, in the county, in the city, or somewhere else? Why? What are the advantages and disadvantages to living in each of these places?
  
- 1 Flight What is turbulence, and when do you experience it in an airplane? Discuss how weather affects flight patterns. What is "banking" in a plane?
  
- 2 History What is the Graveyard of the Atlantic? How did it get that name? Why did so many ships wreck there?
  
- 2 Language What is a synonym for jut [protrude, bulge, project]?
  
- 2 Science Why did the Cape Hatteras Lighthouse have to be moved? What is erosion? What might have

## Timeline of Flight!

*4th century*  
The kite is invented in China.

*875 BC*  
Spanish doctor tries to fly by attaching wings to his body but crashes.

*1485-1500*  
Italian artist Leonardo da Vinci designs several muscle-powered ornithopters.

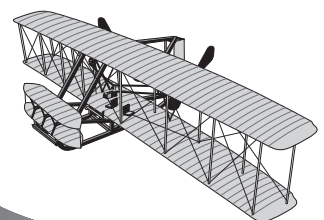


*November 21, 1783*  
The first successful flight in a hot air balloon occurs.

*Early 1800s*  
Englishman George Cayley designs early airplanes and helicopters.

*Mid to late 1800s*  
Several attempts to fly are made but to no great success.

*December 17, 1903*  
Orville and Wilbur Wright become the first to achieve flight in a heavier-than-air plane (using power) that lasts more than a few seconds, is controlled across a distance, and is successfully landed.



happened if no one did anything?

2 Society The Chicamacomico Lifesaving Station was just one of several stations along the Atlantic coastline. What other life saving organizations can you list?

2 Language Latin is sometimes called a dead language. Why? What other Latin phrases do we use in English [*e pluribus unum, carpe diem, modus operandi, semper fidelis, eureka*, etc.]? Explain how kids used to learn Latin in school, and how the knowledge of Latin helps students to learn other languages easier (Latin is a “root” language).



2 Flight Why do you think that people wanted to learn how to fly? What other methods did people try before the Wright Brothers’ success?

2 Flight Why were the Kill Devil Hills at Kitty Hawk perfect for the brothers’ flight?

2 Life What would life be like today if everyone gave up after his or her first try? Discuss famous scientists and inventors like Albert Einstein, Marie Curie, Jonas Salk, Thomas Edison, Nikola Tesla, Lewis Latimer, Isaac Newton, Louis Pasteur, and others who kept trying to succeed at something. What will you try and try again to accomplish someday?



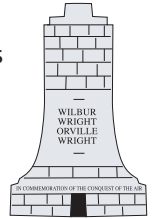
2 Language A 100th anniversary is a centennial. A 200th anniversary is a bicentennial. A 250th anniversary is a semiquincentennial. A 300th anniversary is a tricentennial.

3 Science Why can you get sunburned in winter or any season? How does sunscreen help avoid sunburn and damage to your skin?



## Celebrate the Centennial of Flight!

• Visit the Wright Brothers National Memorial in Kitty Hawk, North Carolina!



• Meander the Aviation Trail in Dayton, Ohio!

• Go to the Evergreen Aviation Museum in McMinnville, Oregon to see the Spruce Goose, a wood flying boat with 17-foot propellers and a 320-foot wing span!

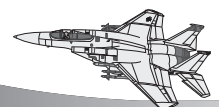
• See the original 1903 Flyer at the National Air and Space Museum in Washington, D.C., the nation’s capital!

• Walk around the Dayton Aviation Heritage National Historical Park!

• Take a ride on a Wright Model B replica at the Dayton-Wright Brothers Airport!

• Tour the original Wright Cycle Shop and boyhood home (moved from Dayton) at the Henry Ford Museum and Greenfield Village in Dearborn, Michigan!

• Browse the U.S. Air Force Museum in Dayton, Ohio!





- 3    Geography    Jockey's Ridge is the largest sand dune on the Atlantic coast. How do sand dunes pile up on the beach? Where are some other large sand dunes in the world?
  
- 3    Society        Today, the Man Can Never Fly Society is a joke. How is that attitude discouraging to people with bright ideas? What assumptions do we make today that people in the future might think are silly?
  
- 3    Science        Why was kudzu originally imported from Japan to America [soil erosion]?
  
- 4    Vocabulary    What does immunity mean? Why is immunity to disease good to have? What other things could one be immune to in life?
  
- 4    History        What do you think happened to the lost colonists? What do you think the CROATAN clue meant?
  
- 4    Life            Even though there was no room at the inn, how might Mimi and the kids acted differently about the situation? How do you think Papa felt?
  
- 5    Life            Have you ever been in a situation that you had to make the best of even though it wasn't very fun or comfortable? Discuss coping strategies to handle problems like "no room at the inn so we have to camp out now."
  
- 5    Vocabulary    What are barracks? What is a galley?
  
- 5    Vocabulary    What is an antique? Why do you think some people think antiques are so important and interesting? Why might Joe need antique tools to work as a preservationist on the Flyer replica? Explain about

## The Hungry Sand Dune

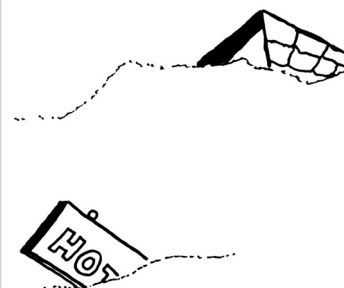
Jockey's Ridge is the largest mountain of sand on the Atlantic Coast. The dune's name originates back to the horse races that were once held at its base.

Since several spectators could sit comfortably on the dune



"grandstand" banks, the site was ideal for the purpose. Marsh ponies, which had escaped ship wrecks, raced wild and free in these contests.

Though Jockey's Ridge is the peak of the sand mountain, sand dunes on each side moved about so much that they once engulfed an old resort hotel until it was eventually completely buried!



restoring old furniture, cars, etc. and using old tools to work on old parts.

- 6 Vocabulary What does lug mean? What are some synonyms of the word lug [drag, haul, tow, pull]?
- 6 Weather The adults talk about the possibility of a Northeaster coming down the coast. What can you do to prepare for a storm in advance?
- 6 History Talk about how place names originate from history. Discuss other examples of place names and their origins.
- 6 Vocabulary What does glower mean? How can the sky glower?
- 6 Writing How did you feel when you read that *Flyer* was gone? Discuss the writing technique of suspense.
- 7 Writing Discuss personification [a figure of speech in which human qualities are attributed to an animal, object, or idea] in the wind example.
- 7 Vocabulary What does plunder mean? What does grouse mean?
- 8 Reading How can reading help you learn more about history and solve problems?
- 8 Logic Before falling asleep, Christina comes up with several ideas for what may have happened to *Flyer*. What other ideas can you think of?
- 9 Education Discuss different types of intelligence and different ways of learning. Ask students how they learn best and which ways they don't learn well.
- 9 Geometry Why does Grant think the monument looks bigger

## Famous Aviators in History

### **Orville and Wilbur Wright**

First to achieve successful powered flight in a heavier-than-air machine (1903)

### **Charles Lindbergh**

First non-stop solo flight from New York to Paris (1927)



### **Richard Byrd**

First to fly over the North Pole (1926)

First to fly over the South Pole (1929)

### **John Glenn**

First American to orbit the earth (1962)

### **Amelia Earhart**

First woman to fly solo across the Atlantic (1932)

First pilot to fly solo from Hawaii to California (1935)



### **Charles Yeager**

First person to pilot an aircraft at supersonic speed (1947)



### **Wiley Post**

First to fly solo around the world (1933)



up close rather than at the bottom of the hill?  
Discuss perception and distances.

10 Logic



Before reading further to find out the reason, why do you think the police have arrested Papa? What clues do you already know, and what do you observe at the scene? Read on to find out why Papa was arrested. Do you agree with this decision? Do you think the police's logic is correct or flawed? Why?

10 Science

Talk about the science of flight (warped wings, lift, yaw, pitch, etc.). Use some of the activities in the reproducible sections to aid your teaching.

11 Vocabulary

What does reluctant mean?

11 Geography

Discuss how the map could help the kids find *Flyer*. Use the map in the book to teach map skills.

11 Language

What else do people call an aerial view (bird's eye view)? How will this help the kids find *Flyer*?

12 Writing

Find the alliteration on this page.

12 Geography

Where are Timbuktu and the Sahara Desert [in Africa]?

12 Ethics

Is there a difference between stealing and borrowing without asking? [No.]

12 Logic

Read the first paragraph. Is Christina's determination more important than all of the reasons not to fly the hang glider?

12 Vocabulary

What does invigorating mean? Think of a few examples to write in sentences.

12 Science

What do yaupon trees look like? What do the



## First Flight Events along the Outer Banks

- Centennial of Flight
- 25th Annual Wright Kite Festival
- 27th Annual Air Race
- Wright Flight: A Symphonic Narrative
- National Air Tour
- Kitty Hawk Heritage Day
- Monument to a Century of Flight
- Kill Devil Hills 2003 Anniversary Carnival
- Aviation Film Festival
- Soaring Society (Gliders) Cross Country Flight Finale
- National Aviation Day (Orville's birthday)
- Ultralight Flight from Dayton to Kitty Hawk
- The Return to Kitty Hawk: Transcontinental Glider Race
- Balloon Celebration which begins in Dayton, Ohio and ends at the Wright Brothers National Memorial in Kill Devil Hills, North Carolina.
- Remember the Past, Imagine the Future Festival
- In History's Footsteps, Celebrating 100 Aviation Pioneers



context clues tell you?

- 12 Science How do windmills work? Research to find out how they might be used as a power source.
- 13 Vocabulary What does it mean to trespass?
- 13 Writing What do the three women look like? Make a list of words from the book that describes them.
- 13 Safety After seeing how the women acted, should the children have gotten into the Jeep?
- 13 Science What is the winter solstice, and why is it important?
- 13 Writing The last radio message broadcast before the chapter ends is a warning. Why do you think the author chose to write the information this way? What do you think will happen next?
- 14 Writing Which words does the author use to describe the hurricane? Rewrite these two paragraphs in your own words.
- 14 Science What are waterspouts? Recreate this weather feature in a science experiment with your students.
- 14 Weather What reasons does the author give to explain the dangers of a hurricane?
- 14 Life What are instincts? Should you always follow your instincts?
- 14 Weather Why would snow fall during a hurricane? What makes snow turn to sleet and then to hail? Discuss the water cycle and other types of precipitation.
- 14 Weather Why is the back side of a hurricane the worst part



## Dare County

Part of the mystery book takes place in Dare County, which lies in northeastern North Carolina along the Atlantic seaboard. The county has six municipalities: Duck, Kill Devil Hills, Kitty Hawk, Manteo, Nags Head, and Southern Shores. Dare County encompasses approximately two-thirds of the North Carolina coastline, including:

- Cape Hatteras National Seashore
- Wright Brothers National Monument
- Fort Raleigh National Historic Site
- Alligator River National Wildlife Refuge
- Pea Island National Wildlife Refuge
- Jockey's Ridge State Park
- Elizabeth II State Historic Site
- Roanoke Island Festival Park
- North Carolina Aquariums
- Nags Head Woods Nature Preserve

Established in 1870, Dare County was named for Virginia Dare, the first child born of English parents in America. Manteo, where the kids and their grandparents first land the airplane, is the county seat. This city is about 200 miles east of Raleigh, the state capital of North Carolina. Manteo is also pretty close to Virginia. It's only about 90 miles south of Virginia Beach and Norfolk.

The population of Dare County is around 29,000. Since the county features so many popular tourism spots, between 200,000 to 225,000 people visit the area every June through August.



of the storm? Why is the eye of the storm calm? Discuss hurricane elements such as thunder, lightning, rain, wind, etc.

- 14 Safety Where is the safest place for the kids to go? Explain about taking cover in doorways, small closets or bathrooms during storms and why this is a good idea. Discuss other safety tips.
- 15 Science What made the tent explode?
- 16 Science What is a generator? How does it provide power?
- 16 Safety Why are the adults upset that the children flew the hang glider without supervision or safety gear?
- 16 Writing What does Mimi mention in the first paragraph about a book? Discuss the relationship between fact and fiction.
- 17 Vocabulary What does a quizzical look mean? Practice giving this look to your classmates.
- 17 Manners Why isn't it nice or polite for the kids to call the three women "ugly"?
- 17 Science How could the police recognize Papa's fingerprints? Lead a fingerprint testing activity with the students.
- 17 Vocabulary What is a dead end? Can you think of other examples of dead ends [roads, etc.]?
- 18 Language Why does Papa call tuxedos "penguin suits"?
- 18 Career What are good qualities for a babysitter to have?
- 18 Language What does Ned mean by "bad publicity"?

## Cape Hatteras National Seashore

People around the country will celebrate the 50th anniversary of the Cape Hatteras National Seashore on August 25, 2003. A series of events will celebrate the commemorative occasion.

The first national seashore in America, Cape Hatteras was authorized August 17, 1937 and established on January 12, 1953. The Cape Hatteras Lighthouse is perhaps the most photographed, visited, and recognized lighthouse in North America.

Once dubbed the "Graveyard of the Atlantic," this seashore encompasses 75 miles of beautiful barrier islands, which are also wintering habitats for several types of migrating waterfowl.



The site, which includes approximately 30,000 acres, extends from Ocracoke Inlet to south Nags Head, and its dangerous currents, shoals, and storms don't discourage its thousands of visitors from flocking to this site each year.





18 History



Why do people save artifacts and preserve old buildings related to a historical person or event? Why do we have museums? Do you think it is important to preserve history or a waste of time?

18 Logic

What is the clue that Ned gives Christina? Have you solved the mystery yet?

19 History

What is a re-enactment? Why do we re-enact historical events?

19 Vocabulary

What does farfetched mean?

19 Vocabulary

What is a dune buggy? Why will this vehicle get Mimi and the kids to the event faster?

19 Writing

Are you surprised by where the plane is found? Which clues did the author give the reader to help solve the mystery?

20 Writing

How does not having time to test the airplane correlate with the Wright brothers' story and the book? Discuss plot, theme, and motifs.

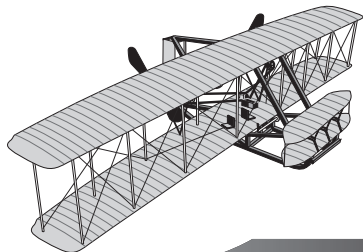
20 Life

What do you think flashes through Christina's mind first when she meets the president? Who would you like to meet if you had the chance?

20 Life

Why did the women choose to steal the plane? What other actions could they have taken? What should you do if you disagree with something?

Be sure to read Carole Marsh Mystery #10:  
*The Mystery in New York City*



## Hurricanes & Nor'easters

### Hurricanes

- stretch 200-300 miles across
- warm core
- symmetrical shape
- can usually find the center
- usually pass through a location in 6-8 hours
- intensity of 74 knots and higher
- occurs June to November
- easily spotted by satellites
- occurs more often in the south and less frequent north of the Carolinas
- born out of thunderstorm clusters over warm water
- damage is extreme, but limited in size

### Nor'easters



- can reach 1,000 miles across
- core usually contains cold air
- irregular shape
- center often hard to locate
- could last a week
- 20-30 form each year, but only a few develop into significant storms
- intensity of 35-40 knots onshore, and higher over the ocean
- occurs October through April
- can pop up out of various conditions
- usually hits the north coast
- born out of the Jet Stream
- remnants of hurricanes can feed a Nor'easter
- damage is not as extreme, but covers a much larger area with more loss of life





## Discussion Questions

- ❖ Discuss how long it took for the Wright brothers to pilot their first successful flight. Talk about the experiments, the mechanical toys, the kites, the bike shop, and the gliders. Explain the system of trial and error. Ask students for personal examples of things they have tried several times to do, like learning to ride a bike or play the piano.
- ❖ How can kids help adults with problems? When is best for kids to not get involved with adult matters? Discuss Christina's legitimate concern for Papa's safety, and how the adults handled the matter.
- ❖ Ask the class to compile a list of important inventions in history such as the printing press, steam engine, cotton gin, telephone, automobile, airplane, computer, etc. on the board. Ask the students which invention they think was the most important to human technological development. Discuss the role that each invention played in history and what life would be like without it today. An assignment idea might be to ask students to devise their own invention to solve an existing need or problem in life.
- ❖ Discuss various types of natural disasters including hurricanes, fires, floods, tidal waves, earthquakes, nor'easters, typhoons, volcanic eruptions, heat waves, monsoons, blizzards, freezes, tornadoes, and others. Where do each of these occur most often? What can people do to protect themselves from these disasters? Talk about safety tips, historical events such as the Mount St. Helens eruption and the Great Chicago fire, and current advanced technology that helps fight these disasters better.
- ❖ Discuss the relationship between fact and fiction. Ask your students to give their definition of each. Explain historical fiction.
- ❖ Talk about history and man's need to preserve and remember it. Ask the class to come up with a list of reasons for preserving history and how to do this.
- ❖ Discuss the following quote: "We were lucky enough to grow up in an environment where there was always much encouragement to children to pursue intellectual interests; to investigate whatever aroused their curiosity. In a different environment, our curiosity might have been nipped long before it could have borne fruit." - Orville Wright



## North Carolina Trivia

- Incorporated in 1705, Bath is the oldest town in North Carolina!
- In 1914, Herman "Babe" Ruth hit his first home run in Fayetteville, North Carolina! 
- The largest tree in North Carolina is a bald cypress that stands northwest of Windsor. It is 138 feet tall and boasts a circumference of more than 38 feet!
- A museum on Harkers Island honors the heritage of carving decoy ducks.
- Only about 200 people live in the former fishing village of Calabash, North Carolina, but there is a seafood restaurant for every 10 residents!
- The Bald-Headed Men of America Headquarters is located in Morehead City, North Carolina. The organization holds an annual convention at Mrs. Willis' Restaurant! 
- Built in 1734 with brick shipped from England, St. Thomas Episcopal Church in Bath is the oldest church in North Carolina. Artifacts include a 1704 Bible and candlesticks donated by King George II and a bell that is 18 years older than the Liberty Bell!

# Geography: Find It!

1. Find out when each town on the Outer Banks was established. Create a timeline to show the progression of the area.
2. What are the geographical advantages to living by the beach? The mountains? The city? The suburbs? Where would you like to live and why?
3. Draw a mechanical blueprint of the Wright Brothers' airplane. Then make a model of it with balsa wood and wood glue. Look in the mystery to find out the other materials the brothers used to make their first plane. Map the journey from Dayton, Ohio to Kill Devil Hills, North Carolina on paper.
4. What is the latitude and longitude of Kill Devil Hills, North Carolina?
5. Draw a map of the Outer Banks. Plot several cities, major attractions, geographic landmarks, and historic points of interest. Include a key, map symbols, title, and chart of locations.
6. Compare Kill Devil Hills and Raleigh, the capital of North Carolina. What are the differences between the two cities? What are the similarities? In which city would you like to live? Why?
7. Construct a model of Kill Devil Hills and the Wright Brothers National Memorial with sand and gray modeling clay or other materials. You could even include the kids' tent, the hang glider, and the museum!

"Wilbur and I could hardly wait for morning to come to get at something that interested us. That's happiness." – Orville Wright

"They were pretty good boys, but mischievous. I had little trouble with them." – Milton Wright, father of Orville and Wilbur



## Great Places to Visit in North Carolina!

- Biltmore House
- Cape Hatteras Lighthouse
- Grandfather Mountain
- Bath Public Library
- USS North Carolina Battleship Memorial
- Great Smoky Mountains National Park
- North Carolina Botanical Gardens
- Bentonville Battleground
- Museum of the Cherokee Indian
- Jockey's Ridge State Park
- Somerset Place
- Reed Gold Mine
- Teach's Hole
- Tryon Palace
- Fort Dobbs
- North Carolina Zoological Park
- Chicamacomico Lifesaving Station
- Thalian Hall
- North Carolina Museum of History
- Mint Museum
- Fort Raleigh
- Appalachian Trail
- Chimney Rock Park



# Mathematics: Calculate It!

1. If Orville flies 20 feet in 5 seconds, how many feet per second does he travel?
2. Orville's famous first flight was 120 feet. Wilbur also flew that day. His flight was 852 feet. How many feet did Wilbur travel farther than Orville?
3. Orville was the air 12 seconds for his first flight. Wilbur's flight lasted 59 seconds. How much time did the two brothers spend flying in the air that day?
4. Flyer was about 40 feet long and cost \$1,000 to build. How much did each foot cost to build?
5. Flyer weighed about 575 pounds. Orville weighed about 175 pounds. How many pounds needed to be lifted in the air for the pilot to fly?
6. If the hurricane blew at 60 miles per hour, how long would it take for the storm to travel 300 miles if the wind speed did not change?
7. Uncle Joe's tools were stolen during the mystery. The hammer cost \$25, the wrench cost \$16, the nails cost \$4, the wood glue cost \$3.50, the screwdriver cost \$8.25, the saw costs \$33, and the crowbar costs \$28. How much were the tools worth?

"For some years I have been afflicted with the belief that flight is possible to man. My disease has increased in severity, and I feel that it will cost me an increased amount of money if not my life." – Wilbur Wright, 1900

"Isn't it astonishing that all these secrets (of flight) have been preserved for so many years just so we could discover them." – Orville Wright, 1903



## North Carolina Events!

- Annual Wright Brothers Anniversary Ball & First Flight Luncheon
- Azalea Festival
- North Carolina Jazz Festival
- Model Railroad Show
- Shad Festival
- Highland Games & Gathering of Scottish Clans
- Surf & Turf Triathlon
- Hollerin' Contest
- Topsail Island Spring Fling
- Belle Chere Festival
- Riverfest: A River Odyssey
- North Carolina Festival By the Sea
- Quilters By The Sea Annual Quilt Show
- Down Home Antique Fair
- North Carolina Big Sweep
- Cape Fear Shakespeare Festival
- Christmas By-The-Sea Festival
- Wooly Worm Festival
- Moravian Candle Tea Covenant
- Greek Festival
- Island of Lights Festival

# English: Write It!

1. Write a new first chapter for *The Mystery at Kill Devil Hills*. How does your new chapter change the course of the mystery?
2. Write two diary entries for December 17, 1903. One should be from the perspective of Wilbur and the other from Orville.
3. Write a poem to honor the accomplishments of the Wright brothers. This can be about the first flight or something else notable. Your poem may be written in any style.
4. Write five new titles for *The Mystery at Kill Devil Hills*. Write new chapter headings for every chapter in the book.
5. Choose 10 nouns, 10 verbs, 10 adjectives, and 10 adverbs from the mystery book. Write a fictional story with these words.
6. Write a paragraph description of your favorite character and your least favorite character in the book.
7. Write a list of suggestions to improve the mystery book or a list of ideas for new mystery books. Send your ideas to the author at Gallopade International!

"We could not understand that there was anything about a bird that could not be built on a larger scale and used by man. If the bird's wings sustain it in the air without the use of muscular effort, we did not see why man could not be sustained by the same results. – Orville Wright



"The boys of the Wright family are all lacking in determination and push. None of us has as yet made particular use of the talent in which he excels other men." – Wilbur Wright, pre 1900



## Flight Books

*How We Invented the Airplane*  
By Orville Wright

*Orville and Wilbur Wright: Step Out Into The Sky!*  
By Carole Marsh

*Orville and Wilbur Wright Two Brothers, One Dream: "Let's Fly"*  
By Carole Marsh

*Before the Wright Brothers*  
By Don Berliner

*Young Orville and Wilbur Wright: First to Fly*  
By Andrew Woods

*Flying Machine*  
By Andrew Nahum

*The Bishop's Boys: A Life of Wilbur and Orville Wright*  
By Tom Crouch

*The Wright Brothers at Kitty Hawk*  
By Donald Sobol

*The Wright Brothers and Aviation*  
By Steve Parker

*The Wright Brothers: How They Invented the Airplane*  
By Russell Freedman

*Taking Flight: The Story of the Wright Brothers*  
By Stephen Krensky

*The Wright Brothers: A Biography*  
By Fred Kelly

*The Wright Brothers, The Birth of Modern Aviation*  
By Anna Sproule

# Vocabulary: Spell It!

Study the words below. Then fold the page in half and take a spelling test! Unfold the page to check your work. Study the words you miss!

*Do you know what all these words mean?*

- LICENSE \_\_\_\_\_
- ANNIVERSARY \_\_\_\_\_
- RICKSHAW \_\_\_\_\_
- GALLIVANT \_\_\_\_\_
- PROPELLER \_\_\_\_\_
- PATRIOTIC \_\_\_\_\_
- TERMINAL \_\_\_\_\_
- REPLICA \_\_\_\_\_
- SPRAWL \_\_\_\_\_
- CENTENNIAL \_\_\_\_\_
- EXPERIMENT \_\_\_\_\_
- IMMUNITY \_\_\_\_\_
- SUSPICIOUS \_\_\_\_\_
- MEMORIAL \_\_\_\_\_
- JEALOUS \_\_\_\_\_
- HURRICANE \_\_\_\_\_
- EVACUATE \_\_\_\_\_
- GUARDIAN \_\_\_\_\_
- GLOWER \_\_\_\_\_
- MARITIME \_\_\_\_\_
- HELICOPTER \_\_\_\_\_
- CONCESSION \_\_\_\_\_
- FIDGETY \_\_\_\_\_
- MECHANIC \_\_\_\_\_
- SOLSTICE \_\_\_\_\_

## Flight Terms

altimeter: gauge that tells a pilot the altitude

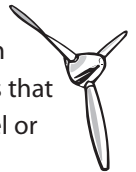
cockpit: compartment from which the plane is piloted



glider (gl IH der): an aircraft that has no motor but flies completely by wind force

mechanical (meh CAN eh kul): something made or that operates using mechanics

propeller: device that consists of a central hub with radiating blades that is used to propel or move a vehicle



orinthropter (or nuh THOP tur): an early version of the helicopter

rudder (RUH der): piece used in boats and airplanes to help control the direction of the craft

speed: the rate of motion, or how fast something can go



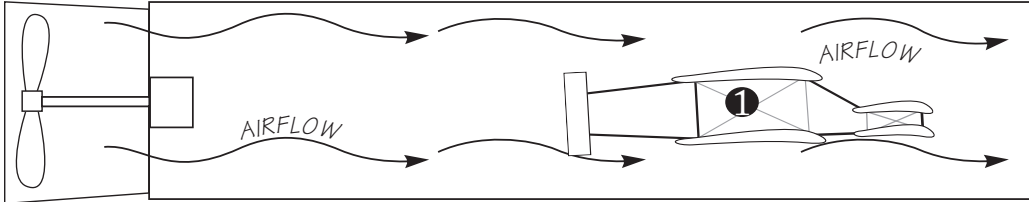
warped wing: a wing that is curved at the top to provide lift for the wing



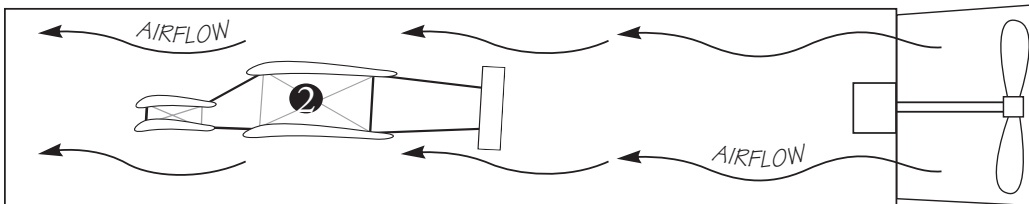
# Science: Figure It Out!

We built a model of the Wright Brothers' Flyer to test in our wind tunnel! Look at the diagrams below to answer the questions.

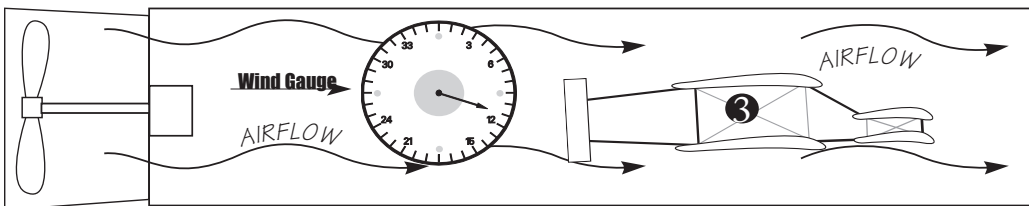
1. Airplane number 1 is traveling in which direction? \_\_\_\_\_



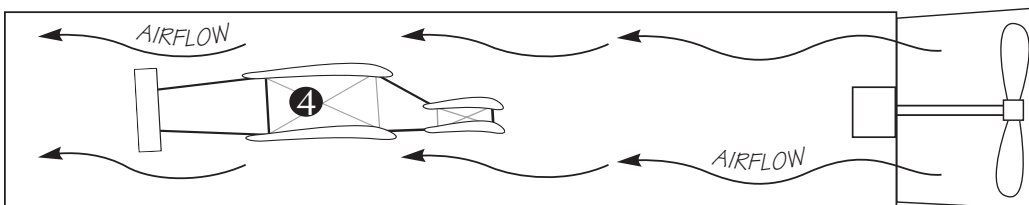
2. Airplane number 2 is traveling in which direction? \_\_\_\_\_



3. Airplane number 3 is traveling *with* the wind, but at twice the speed of the wind, so it is moving at \_\_\_\_\_ feet-per-minute.



4. Airplane number 4 is traveling *against* the wind. It is twice as slow as airplane number 3. The plane is traveling at \_\_\_\_\_ feet-per-minute.



## Wright Brothers Trivia

- Wilbur was born in Indiana, and Orville was born in Ohio.
- The boys' father served as a bishop of the United Brethren Church.
- Neither Wilbur nor Orville graduated from high school.
- The Wright brothers earned spending money by selling mechanical toys they made at home.
- Flyer cost less than \$1,000 to build.
- The Wright brothers tested more than 200 different wing models in their wind tunnel.
- The brothers conducted nearly 1,000 flights in their 1902 glider.
- Orville and Wilbur flipped a coin to see who would make the historic flight at Kitty Hawk.
- Flyer was constructed of wooden poles, baling wire, muslin cloth, bicycle chains, and a gasoline engine that had no more power than a lawnmower!
- Wilbur once flew an airplane around the Statue of Liberty!





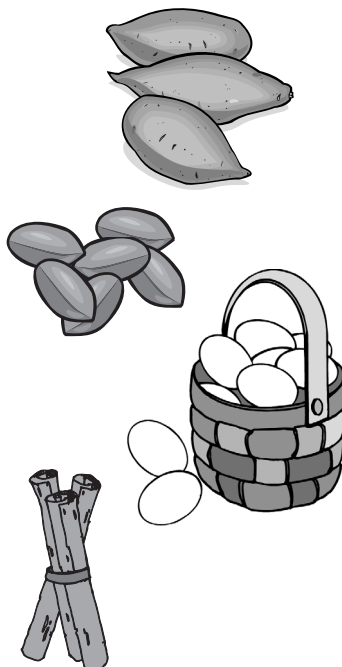
# Kitchen: Cook It!

The sweet potato is the state vegetable of North Carolina. Bake this State Sweet Potato Casserole and Carolina Hush Puppies for a coastal meal! Roast some Beach Bonfire Bites for dessert!

## State Sweet Potato Casserole

### Ingredients

- 4 cups sweet potatoes, peeled and cubed
- 2 cups granulated sugar
- 4 eggs, beaten
- 3/4 cup margarine, melted
- 1 cup evaporated milk
- 1 tsp. ground nutmeg
- 1 tsp. ground cinnamon
- 2 cups mini marshmallows
- 1.5 cups crushed corn flake cereal
- 1/2 cup packed brown sugar
- 1 cup minced pecans
- 3/4 cup margarine, melted



### Directions

1. Preheat oven to 400° F.
2. Mash sweet potatoes in a large bowl.
3. Mix granulated sugar, eggs, 3/4 cup margarine, milk, nutmeg, cinnamon, and marshmallows with potatoes.
4. Move mixture into a 9x13 inch greased baking dish.
5. Bake 20 minutes in the preheated oven.
6. Combine cereal, brown sugar, pecans, and 3/4 cup margarine in a small bowl.
7. Spread the mixture over the baked casserole.
8. Bake the casserole another 10 minutes in the 400° F oven.
9. Serve warm!



## Side Suggestions

### Carolina Hush Puppies

#### Ingredients

- 2 eggs, beaten
- 1/2 cup granulated sugar
- 1 large onion, diced
- 1 cup self-rising flour
- 1 cup self-rising cornmeal
- 1 quart oil

#### Directions

Mix eggs, sugar, and onion. Blend in the flour and cornmeal. Heat 2 inches of oil to 365° F. Drop batter by rounded teaspoonfuls into the heated oil. Fry the dough in small batches until golden brown. Drain briefly on paper towels. Serve hot!

### Beach Bonfire Bites!

#### Ingredients

- 1 box of graham crackers
- 1 bag of large marshmallows
- 4 chocolate bars

#### Directions

1. Roast a marshmallow over a campfire pit (don't burn it!).
2. Place some chocolate sections between two sections of graham cracker.
3. Add the softened marshmallow between the chocolate and cracker.
4. Let the heated marshmallow soften the chocolate till slightly gooey.
5. Chomp on your beach bonfire bite!

# The Mystery at Kill Devil Hills Kite



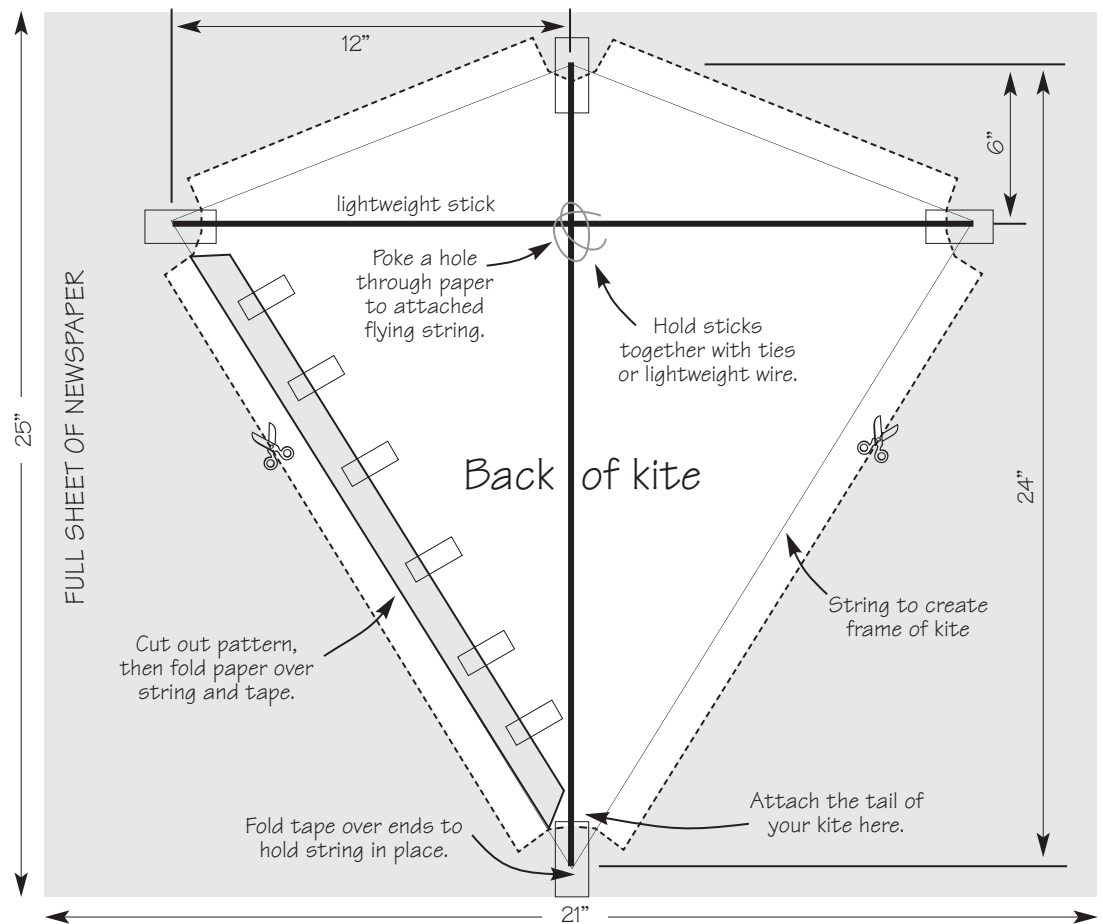
Orville and Wilbur studied patterns of flight for hours before their first flight ever became reality. They decided that a bird's natural flying abilities could be replicated by machine for man to fly. The pair began building kites to test this theory, and later built gliders and planes until one prototype finally took off!



## Build Your Own Diamond Kite!

### HERE'S WHAT YOU WILL NEED:

- ❶ 2 lightweight sticks (24" long)
- ❷ bread or trash bag ties or some other lightweight wire
- ❸ a full sheet of newspaper
- ❹ cellophane or masking tape
- ❺ a pair of scissors
- ❻ lightweight string (kite string)
- ❼ a strip of fabric or party streamers or a ribbon  
(This is for the tail and should be about 48" to keep your kite from spinning out of control.)



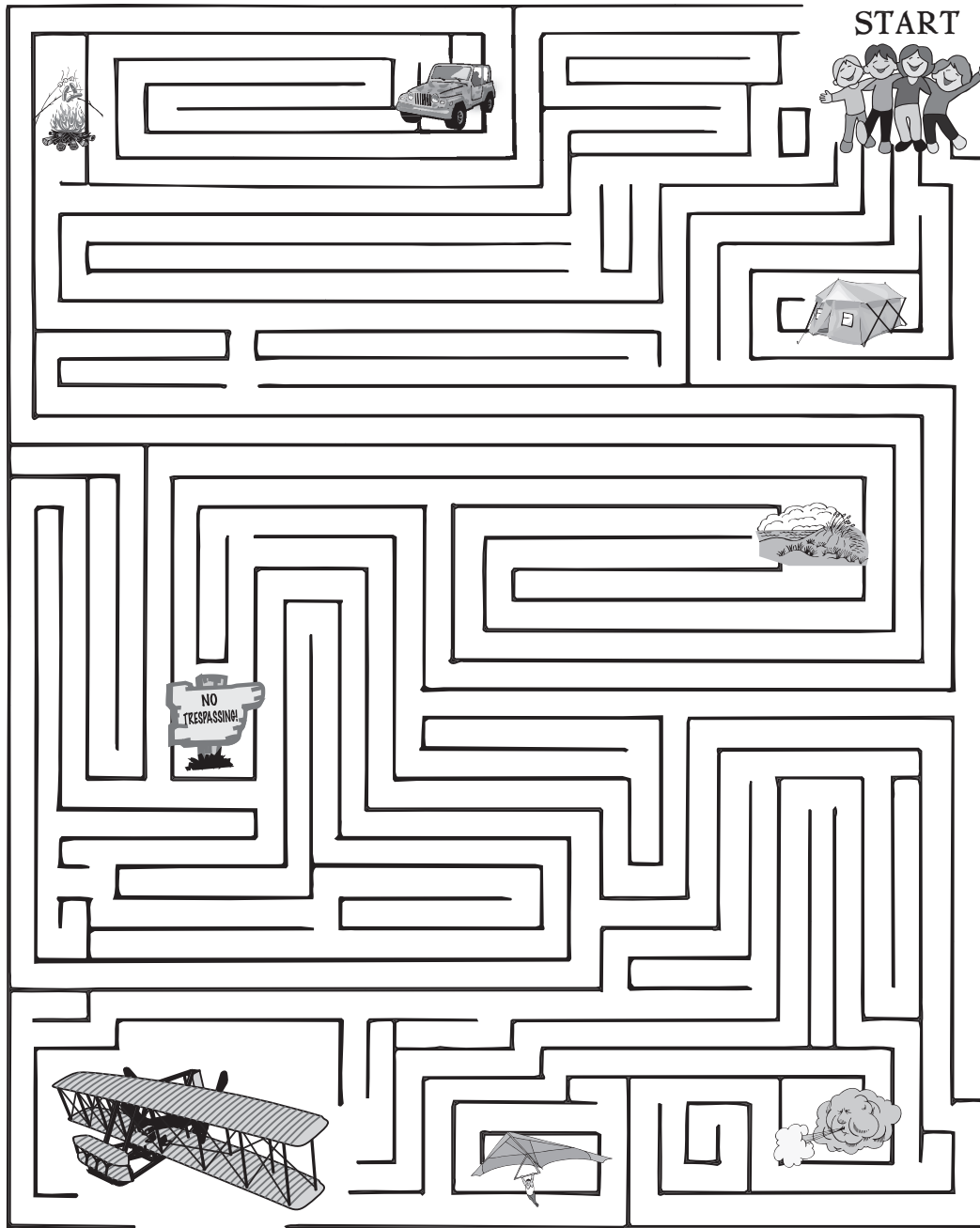
Ingenious!  
Absolutely  
INGENIOUS!



## The Mystery at Kill Devil Hills Maze



Help Christina, Grant, Alex, and Griffin find their way  
through the maze to the missing airplane!



FINISH



***The Mystery at Kill Devil Hills  
Pair Up***



*Match the words on the left with the correct words on the right!*



KILL DEVIL

COUNTY

FIRST

CAROLINA

DARE

HATTERAS

CAPE

WILBUR

NAGS

HILLS

OUTER

RIDGE

WRIGHT  
BROTHERS

ANNIVERSARY

BANKS

KITTY

HEAD

ORVILLE &

FLIGHT

NORTH

HAWK

JOCKEY'S

NATIONAL

100<sup>TH</sup>

MEMORIAL



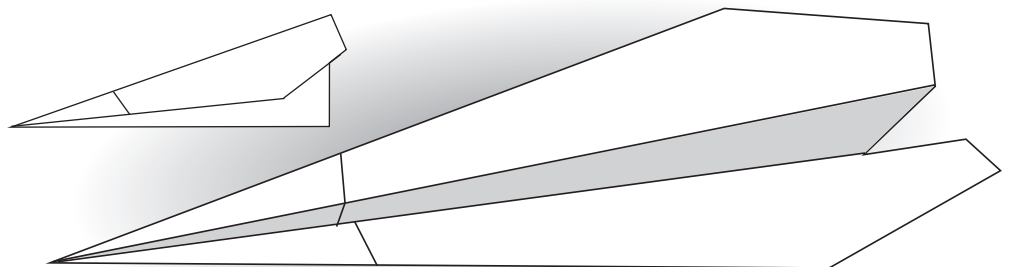
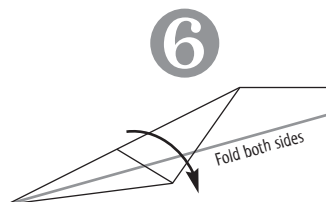
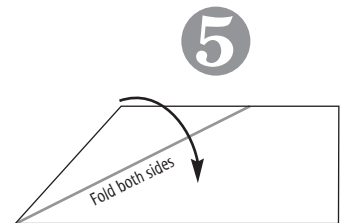
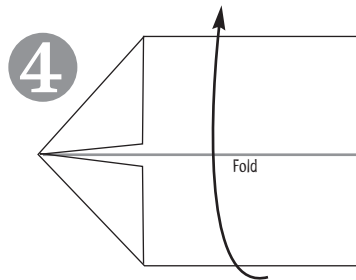
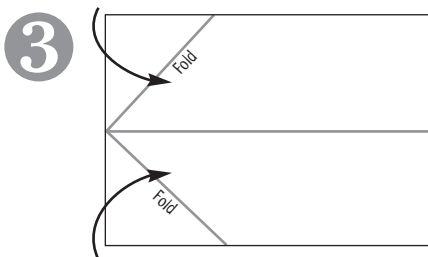
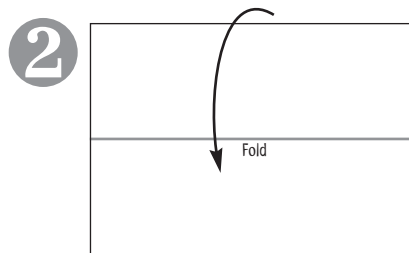
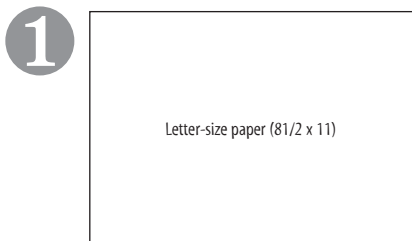
## The Mystery at Kill Devil Hills Airplane!



Follow the directions to build a paper airplane like the Wright Brothers!  
Use the pictures to help guide your steps.



Fold an 8.5 x 11 inch sheet of paper in half lengthwise. Next fold the corners down as shown. Then fold each side down to the center again, and then again as shown in the picture. Decorate your plane to celebrate the 100th anniversary of flight!



## The Mystery at Kill Devil Hills Clue Scramble



*Unscramble the words below to find mystery clues!*

1. JNKU \_\_\_\_\_

2. RCAPLIE \_\_\_\_\_

3. TLOOS \_\_\_\_\_

4. SNDA DNUE \_\_\_\_\_

5. MTOOR \_\_\_\_\_

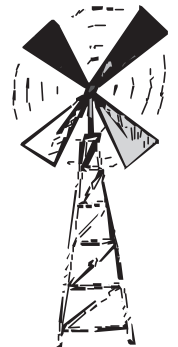
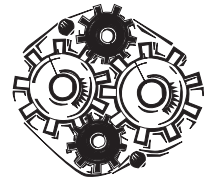
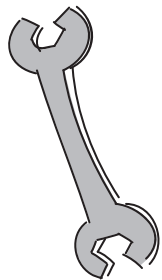
6. TREHE WMEON \_\_\_\_\_

7. ILLWMIND \_\_\_\_\_

8. SUECSPT \_\_\_\_\_

9. PTARS \_\_\_\_\_

10. EEPJ \_\_\_\_\_





# The Mystery at Kill Devil Hills Word Search



*Search for the mysteriously hidden words below!  
What words can you find that aren't in the word bank?*

M H X W M V S Y R T N E T S B R S  
 T U O I R P L N E C B H E O L E U  
 N R A N T C O A S T G R N S N D R  
 E R R D S Z O W W I O E T S O I F  
 V I I M Y S T E R Y R T C A D L B  
 N C D I M X A W T U Z D W N U G O  
 I A G L A I R P L A N E I D N A A  
 S N E L A I N N E T N E C F E P R  
 H E L I C O P T E R T E N S A S D

AIRPLANE

COAST

DUNE

HELICOPTER

SAND

MYSTERY

WINDMILL

INVENT

WRIGHT

CENTENNIAL

RIDGE

HURRICANE

GLIDER

TOOLS

SURFBOARD

TENT



## The Mystery at Kill Devil Hills Fill-in-the-Blank Crossword



Fill in the blanks with answers from the mystery!

1. When air moves over a W \_\_\_\_\_ board,  
it provides \_\_\_\_\_ I \_\_\_\_\_ to the wing.
2. The kids rode beach bikes that could seat \_\_\_\_\_ W \_\_\_\_\_ people.

3. Grant and Christina are from

\_\_\_\_\_ E \_\_\_\_\_

C \_\_\_\_\_, Georgia.

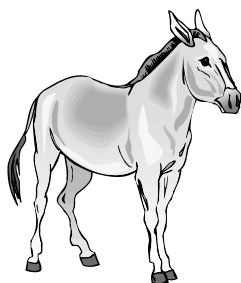


4. J \_\_\_\_\_ Y ' \_\_\_\_\_  
\_\_\_\_\_ G \_\_\_\_\_ is the largest  
sand dune on the Atlantic coast.



5. An interesting \_\_\_\_\_ E \_\_\_\_\_ sits next to  
the Wright Brothers' Memorial at Kitty Hawk.

6. N \_\_\_\_\_ H \_\_\_\_\_ was named after  
a trick that some shipwrecked pirates used to play on  
unsuspecting sailors along the coast.



## ***The Mystery at Kill Devil Hills Matching Facts***



*Match these mystery characters with their facts!*

- |              |                           |
|--------------|---------------------------|
| 1. Uncle Joe | A. Motel babysitter       |
| 2. Ned       | B. Gets arrested          |
| 3. Papa      | C. Her idea to hang glide |
| 4. Grant     | D. Writes mysteries       |
| 5. Christina | E. Needs his tools        |
| 6. Alex      | F. Surfer girl            |
| 7. Mimi      | G. Youngest character     |



## The Mystery at Kill Devil Hills Quiz



Answer each quiz question about the mystery!

1. What is a storm that “screams” down the coast in winter?

---

2. Where did the Wright Brothers’ first flight take place?

---

3. What is the vertical chain of islands off North Carolina’s coast?

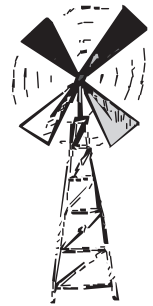
---

4. Who are the Tarheel cousins?

---

5. Where was the missing *Flyer*?

---



6. What funny organization do Mimi and Papa belong to?

---

7. What is a nickname for North Carolina’s shoreline because of all the shipwrecks that occurred there?

---



8. Which major North Carolina landmark was moved inland to avoid erosion damage?

---

9. In which town do the kids first arrive after landing the airplane?

---



## ***The Mystery at Kill Devil Hills True or False***



*Mark each statement true or false.  
Can you replace the word that is false in each statement?*

- \_\_\_\_\_ 1. *Flyer* is a helicopter.
- \_\_\_\_\_ 2. Four women stole the airplane.
- \_\_\_\_\_ 3. The four kids survived a hurricane during the mystery.
- \_\_\_\_\_ 4. Grant is nine years old.
- \_\_\_\_\_ 5. Orville and Wilbur Wright used to own a bike shop.
- \_\_\_\_\_ 6. Alex and Griffin live in South Carolina.
- \_\_\_\_\_ 7. The airplane was rebuilt into a windmill.
- \_\_\_\_\_ 8. The first flight took place in 1904.
- \_\_\_\_\_ 9. Kitty Hawk Memorial lies in a valley.
- \_\_\_\_\_ 10. Uncle Joe, Alex, and Griffin stayed in a tent on the beach.



## ***Answer Key...***

# ***to The Mystery at Kill Devil Hills Activities***



### *Math Activities*

1. 4 feet per second;
2. 732 feet farther;
3. 71 seconds;
4. \$25 per foot;
5. 750 pounds;
6. 5 hours;
7. \$117.75

### *Science Activities*

1. east;
2. west;
3. 22 feet per minute;
4. 5.5 feet per minute

### *The Mystery at Kill Devil Hills Pair Up*

KILL DEVIL HILLS; FIRST FLIGHT; DARE COUNTY; CAPE HATTERAS; NAGS HEAD;  
OUTER BANKS; WRIGHT BROTHERS NATIONAL MEMORIAL; KITTY HAWK; ORVILLE &  
WILBUR; NORTH CAROLINA; JOCKEY'S RIDGE; 100TH ANNIVERSARY

### *The Mystery at Kill Devil Hills Clue Scramble*

JUNK; REPLICA; TOOLS; SAND DUNE; MOTOR; THREE WOMEN; WINDMILL; SUSPECT;  
PARTS; JEEP

### *The Mystery at Kill Devil Hills Fill-in-the-Blank Crossword*

1. WARPED, LIFT; 2. TWO; 3. PEACHTREE CITY; 4. JOCKEY'S RIDGE; 5. MUSEUM; 6. NAGS  
HEAD

### *The Mystery at Kill Devil Hills Matching Facts*

1. E; 2. A; 3. B; 4. G; 5. C; 6. F; 7. D

### *The Mystery at Kill Devil Hills Quiz*

1. Northeaster; 2. Kitty Hawk; 3. Outer Banks; 4. Alex and Griffin; 5. rebuilt into a windmill by  
the women's cottage; 6. Man Will Never Fly Society; 7. Graveyard of the Atlantic; 8. Cape  
Hatteras Lighthouse; 9. Manteo

### *The Mystery at Kill Devil Hills True or False?*

1. False – airplane; 2. False – three; 3. True; 4. False – Christina; 5. True; 6. False – North  
Carolina; 7. True; 8. False – 1903; 9. False – on a hill; 10. True

