Creative Kits
ACTIVITIES FOR KIDS

SEPTEMBER 2020
“LOOK TO THE SKY”
Welcome to your Creative Kit! Because the library is not yet open for programs, this kit includes a month’s worth of activities for you to complete at home. Inside, you’ll find craft projects, science experiments, games and activities, a book list, a reading challenge, and much more.

To make the most of your kit, tune in to videos and virtual programming hosted by the library (a full schedule is included). If you have any questions about your kit, please call the library at 224-7113, or email the Youth Services Librarian at juliana@bakerfreelib.org.

This month’s theme is Look to the Sky. We’ll explore the whole wide world above us: wild weather and wind, clouds and rainbows, constellations and the night sky, and just about everything with wings! We’ll learn about:

- Incredible Bird Migration Journeys
- The Symmetry of Butterfly Wings
- How to Harness Energy from the Wind
- Why Rainbows Look The Way They Do (and how to make one!)

...And much more!

Register for programs and future kits at www.bowbakerfreelibrary.org.
Let’s Explore!
Additional Information & Resources

Additional Resources
Visit [www.explore.org](http://www.explore.org) (or use their free app) to watch a live animal webcam! We recommend the following livestreams:

1. **Puffin Burrow** in Seal Island, Maine
2. **Mississippi River Flyway** in Brice Prairie, Wisconsin
3. **Chesapeake Conservancy** in Kent Island, Maryland
4. **Redwood Grove Condors** in Big Sur, California
5. **Honey Bee Hive** in Buchloe, Germany

You can find all available bird cams under the heading “Nestflix.”

**NASA Space Place**
Visit NASA’s exclusive portal for kids and families with [NASA At Home](http://www.nasa.gov), and check out dozens of crafts and activities at Space Place by visiting [spaceplace.nasa.gov](http://spaceplace.nasa.gov).

**Weather Wiz Kids**
To learn more about the wild world of weather, visit [www.weatherwizkids.com](http://www.weatherwizkids.com), and access dozens of free experiments to try at home!

Curious Questions

**Why Do Hurricanes Have Names?**
Hurricanes are huge storms that bring rain, flooding, and lots of wind. Hurricanes only form over warm water, so they usually appear in the summer and autumn months when the ocean waters are at their warmest.

The United States began “naming” hurricanes in 1953, in order to track them more easily. They used only women’s names until 1979, when they decided to include men’s names, too. Now, naming is done by the World Meteorological Organization, and they rotate a list of six names for every letter.

If a hurricane does a lot of damage, it’s name might be retired (not used again). Retired hurricane names include Andrew, Carmen, Sandy and Katrina.

**How Do Dragonflies See The World?**
Dragonflies have some of the most impressive eyes in the animal kingdom. Their compound eyes take up almost all the space on their head, and they can see in multiple directions at one time. Dragonflies can also see many thousands more colors than humans, including ultraviolet light and other spectrums that are invisible to us.

Dragonflies, in order to catch prey that flies as quickly as they do, also see the world in slow motion. They have one of the fastest *flicker rates* in the world, meaning they can process up to 300 images in just one second! That means that a dragonfly, watching a movie, would see just a series of still photographs clicking slowly by.

Watch “How Do Dragonflies See the World” on Youtube to learn more, presented by BBC Earth.

Register for future kits at [www.bowbakerfreelibrary.org](http://www.bowbakerfreelibrary.org).
### SEPTEMBER 2020

#### SUGGESTED CALENDAR

<table>
<thead>
<tr>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
<th>Saturday</th>
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<tbody>
<tr>
<td><strong>READING CHALLENGE</strong>&lt;br&gt;Stock up on some new books at the library, and check off an item on your monthly reading challenge!</td>
<td>PICTURE BOOK READ-ALOUD 12:00PM (Virtual)</td>
<td>BIRDS OF A FEATHER&lt;br&gt;Color a bird picture (or two) today, and try your hand at the paper bird assemblage art project.</td>
<td>EXPLORE A LIVESTREAM&lt;br&gt;Watch a live animal camera on explore.org to see a real bird's nest up-close.</td>
<td>BACKYARD BIRD WATCH&lt;br&gt;Set up a spot in your backyard, and go on a bird watch. Record as much as you can about the birds you find.</td>
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<tr>
<td><strong>STORY TELLER</strong>&lt;br&gt;Tell your story! Try the Roll-a-story activity (3-7), or stretch your wings with our short story challenge (8-12).</td>
<td>BUTTERFLY ART EXPLORATION&lt;br&gt;Break out the paint to explore the symmetry of monarch wings.</td>
<td>PICTURE BOOK READ-ALOUD 12:00PM (Virtual)</td>
<td>BUG HOTEL&lt;br&gt;Complete your worksheets from The Book of Brilliant Bugs, and create your own bug hotel!</td>
<td>EXPLORE A LIVESTREAM&lt;br&gt;Watch a live animal camera on explore.org to see a honeybee's nest up-close.</td>
<td>SUNLIGHT ART EXPLORATION&lt;br&gt;Discover the sun's power by making your own colorful solar prints.</td>
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<tr>
<td><strong>BOOKANEERS BOOK CLUB: AGES 8-12</strong>&lt;br&gt;3:00PM (Virtual)</td>
<td><strong>CLOUD HUNT</strong>&lt;br&gt;Assemble your weather wheel (3-7) or cloud wheel (8-12), and go on a cloud hunt. What do you see?</td>
<td><strong>PICTURE BOOK READ-ALOUD 12:00PM (Virtual)</strong></td>
<td><strong>WINDMILLS &amp; HELICOPTERS</strong>&lt;br&gt;Explore the science of wind and flight: build a paper helicopter (3-7) or a working windmill (8-12)</td>
<td><strong>STEM EXPLORATION</strong>&lt;br&gt;How do rainbows form? Try a simple experiment to see if you can make your own at home.</td>
<td><strong>LEGO CHALLENGE</strong>&lt;br&gt;Build your own project, inspired by the library's monthly Lego Challenge!</td>
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<td><strong>SPACE PLACE</strong>&lt;br&gt;Head to NASA’s Space Place to take part in virtual or printable projects designed by NASA.</td>
<td><strong>PAPER AIRPLANE FLIGHT CONTEST</strong>&lt;br&gt;Challenge your friends to a paper airplane contest! Can you design a plane that flies longer? Higher?</td>
<td><strong>PICTURE BOOK READ-ALOUD 12:00PM (Virtual)</strong></td>
<td><strong>WEATHER WIZ</strong>&lt;br&gt;Head to Weather Wiz Kids online, and try one of their free weather experiments at home.</td>
<td><strong>STAR GAZING NIGHT</strong>&lt;br&gt;Pack your moon map, constellation chart and a snack, and spend an hour gazing beneath the stars.</td>
<td><strong>SIGN-UP FOR OCTOBER’S KIT</strong>&lt;br&gt;Don't forget to register for the October kit, available next Thursday.</td>
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<tr>
<td><strong>BOOKANEERS BOOK CLUB: AGES 8-12</strong>&lt;br&gt;3:00PM (Virtual)</td>
<td><strong>BOOK TRACKER</strong>&lt;br&gt;Look over all the books you finished this month. Can you complete one more reading challenge today?</td>
<td><strong>REFLECTION</strong>&lt;br&gt;What topics are you still curious about? Ask a librarian to help you learn more!</td>
<td><strong>YOU CAN COMPLETE THE ACTIVITIES IN YOUR KIT AT ANY TIME. THIS CALENDAR SIMPLY SHOWS A PROPOSED SCHEDULE THAT SPREADS YOUR KIT’S CONTENTS THROUGHOUT THE MONTH, AND IS DESIGNED TO COORDINATE WITH VIRTUAL PROGRAMMING HOSTED BY THE LIBRARY. LIBRARY EVENTS ARE COLORED IN BLUE!</strong></td>
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# Suggested Books

## Ages 3-7

- **Don't Feed the Coos!**  
  **ANIMALS:** JP STUTZMAN

- **Have You Heard the Nesting Bird?**  
  **ANIMALS:** JP GRAY

- **Bird Builds a Nest**  
  **ANIMALS:** JP JENKINS

- **The Wind Blew**  
  **NATURE:** JP HUTCHINS

- **Good Night, Wind**  
  **NATURE:** JP JENKINS

- **Cloudette**  
  **NATURE:** JP LICHTENFIELD

- **Little Cloud**  
  **FAVORITES:** JP CARLE

- **It Looked Like Spilt Milk**  
  **BB SHAW**

- **Ava and the Rainbow**  
  **NATURE:** JP ADAMSON

- **The Hidden Rainbow**  
  **NATURE:** JP MATHESON

- **Bee**  
  **ANIMALS:** JP TECKENTRUP

- **Butterfly Counting**  
  **CONCEPTS:** JP PALLOTTA

- **Senorita Mariposa**  
  **ANIMALS:** JP GUNDERSHEIMER

- **Waiting for Wings**  
  **ANIMALS:** HP EHLERT

- **Planes Fly!**  
  **THINGS THAT GO:** JP LYON

- **Come Fly With Me**  
  **THINGS THAT GO:** JP ICHIKAWA

## Ages 8-12

- **Coo**  
  **Kaela Noel**  
  **J NOEL**

- **Hoot**  
  **Carl Hiaasen**  
  **Y HIAASEN**

- **Wild Wings**  
  **Gill Lewis**  
  **J LEWIS**

- **Extraordinary Birds**  
  **Sandy Stark-McGinnis**  
  **J STARK-MCGINNIS**

- **The Owl Diaries**  
  **Rebecca Elliott**  
  **J OWL DIARIES**

- **Guardians of Ga’Hoole**  
  **Kathryn Lasky**  
  **J GUARDIANS**

- **Storm Blown**  
  **Nick Courage**  
  **J COURAGE**

- **Lions & Liars**  
  **Kate Beasley**  
  **J BEASLEY**

- **Magic Tree House: Hurricane Heroes in Texas (30)**  
  **Mary Pope Osborne**  
  **J MAGIC TREE HOUSE**

- **I Survived: Hurricane Katrina, 2005**  
  **Lauren Tarshis**  
  **J I SURVIVED**

- **The One and Only Bob**  
  **Katherine Applegate**  
  **CDAB APPLEGATE**  
  **J APPLEGATE**

## Non-Fiction

- **All the Birds in the World**  
  **J 598 OPIE**

- **Look Up! Bird-Watching In Your Own Backyard**  
  **J 598.07 CATE**

- **Feathers: Not Just for Flying**  
  **J 598.147 STEWART**

- **Crow Smarts: Inside the Brain of the World’s Brightest Bird**  
  **J 598.8 TURNER**

- **Migration: Incredible Animal Journeys**  
  **J 591.56 UNWIN**

- **Winged Wonders: Solving the Monarch Migration Mystery**  
  **J 595.78 PINCUS**

- **How to Be a Butterfly**  
  **J 595.78 KNOWLES**

- **Soar High, Dragonfly!**  
  **J 595.733 BESTOR**

- **Energy Island: How One Community Harnessed the Wind and Changed Their World**  
  **J 333.9 DRUMMOND**

- **Look at the Weather**  
  **J 551.55 TECKENTRUP**

- **Hurricanes**  
  **J 551.55 GIBBONS**

- **The Magic School Bus: Inside a Hurricane**  
  **J 551.55 COLE**

- **Catch the Wind, Harness the Sun: 22 Super-Charged Science Projects for Kids**  
  **J 333.79 CADUTO**
Celebrate the new school year by reading a book that takes place in a school, at a park, or on a playground.

Find a comfortable spot outside, and read beneath the shade of a tree.

Read a book that features a bird as a character, or has a bird on the cover.

Read a book while enjoying the view! Read sitting next to a window, in a treehouse, on a swing, or in any other setting that lets you see the sky.

Read a book with a purple cover.

Read a poem, or a book of poems! Ask a librarian to recommend a great collection.

Read a book about a flying insect: a bee, a dragonfly, or any other winged creature that interests you.

Read a book about outer space or the night sky.

Don’t have your own library card? Head to the library during Library Card Sign-up Month this September to get your own! They are free for anyone aged 6 or older.
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<tr>
<th>Books Finished</th>
<th>Challenge Completed</th>
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Look to the Sky
Short Story Challenge

The Challenge: Write a short story that includes the phrase "When I opened my eyes, I was flying." The phrase can occur anywhere in the story. Be creative, and feel free to add pictures!

If you’d like to be featured on the library’s website, submit the completed story to juliana@bakerfreelib.org or bring it to the library on your next visit!

Space is provided below, but you can write or type your story anywhere you choose.
Suggested songs, rhymes and stories to share before bedtime, or anytime you’re missing our regular storytimes!

**SONGS & RHYMES**

*Visit “JBrary” on YouTube for melodies, sign language and hand movements for all songs!*

**Rain is Falling Down**
Rain is falling down, *(run fingers down)*
SPLASH! *(clap hands)*
Rain is falling down, SPLASH!
Pitter, patter, pitter, patter
Rain is falling down,
SPLASH!

Sun is peeking out *(put hands above eyes, look around)*
PEEK! *(hands in front of eyes, then open)*
Sun is peeking out, PEEK!
Peeking here, peeking there,
Sun is peeking out,
PEEK!

**Come Under My Umbrella**
*To the tune of: “The More We Get Together”*
Come under my umbrella, umbrella, umbrella
Come under my umbrella, it’s starting to rain
With thunder and lightning,
Lightning and thunder!
Come under my umbrella, it’s starting to rain.

**The Itsy Bitsy Spider**
The itsy-bitsy spider
Climbed up the water spout.
Down came the rain
And washed the spider out!
Out came the sun
And dried up all the rain,
And the Itsy-bitsy spider
Climbed up the spout again.

**Bumblebee, Bumblebee**
Bumblebee, bumblebee,
Come out of the barn.
With a bag of honey
Under each arm!

**Two Little Butterflies**
Two little butterflies sitting on a hill,
One name Jack, and one name Jill!
Fly away Jack, Fly away Jill!
Come back Jack, Come back Jill.

**I Have A Little Ladybug**
*To the tune of: “Mary Had a Little Lamb”*
I have a little ladybug,
ladybug, ladybug
I have a little ladybug,
It’s wings are black and red.

See the little ladybug,
ladybug, ladybug.
See the little ladybug
Flying here and there.
Now it’s landing on the ground,
On the ground, on the ground.
Now it’s landing on the ground
And crawling everywhere.

**Zoom, Zoom, Zoom**
Zoom, zoom, zoom,
We’re going to the moon! *(x2)*

If you want to take a trip,
Climb aboard my rocket ship,

Zoom, zoom, zoom
We’re going to the moon!
In 5, 4, 3, 2, 1…
Blastoff! *(jump up)*

**Other verses:**
Far, far, far, we’re going to the stars
Fun, fun, fun, we’re going to the sun
STORYTIME AT HOME

Suggested songs, rhymes and stories to share before bedtime, or anytime you’re missing our regular storytimes!

STORIES TO SHARE

Books about birds, butterflies and other insects, plus wind and stormy weather! Ask a librarian to help you find more.

**ANIMALS:**
- Hooray for Birds! (JP COUSINS)
- Waiting for Wings (JP ELHERT)
- Purple Little Bird (JP FOLEY)
- Bird Songs (JP FRANCO)
- I Spy in the Sky (JP GIBBS)
- Butterfly, Butterfly (JP HORACEK)
- Bee (JP TECKENTRUP)
- Crow, Not Crow (JP YOLEN)

**NATURE:**
- The Stuff of Stars (JP BAUER)
- Tap Tap, Boom Boom (JP BLUERMEL)
- Flora’s Very Windy Day (JP BIRDSALL)
- Good Night, Wind (JP MARSHALL)
- Touch the Brighest Star (JP MATHESON)
- Kate, Who Tamed the Wind (JP SCANLON)
- When the Wind Blows (JP SWEENEY)
- The Big Storm (JP TAFURI)

**NON-FICTION:**
- I Faced the Wind J 551.51 COBB
- Storms and Hurricanes J 551.5 GEMMELL
- Monarch Butterfly J 595.78 GIBBONS
- Superlative Birds J 598 BULION
- Mama Built a Little Nest J 598.516 WARD
- On the Wing J 811 ELLIOT
- Seeds, Bees, Butterflies and More! Poems for Two Voices J 811 GERBER
- The Big Book of Bugs 595.7 ZIMMER

FEATURED READ-ALOUDS

Tune in every Wednesday to hear a virtual read-aloud with Miss Juliana!
Look to the Sky...
Roll a Story Activity

All you need for this activity is a single die and some imagination! Create a story that weaves together the character, place and problem you receive by randomly rolling the dice. Your story can be as long or short, and take as many twists and turns as you choose.

<table>
<thead>
<tr>
<th>If You Roll A...</th>
<th>First Roll: Place</th>
<th>Second Roll: Character</th>
<th>Third Roll: Problem</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A rocket ship to outer space</td>
<td>A panda bear</td>
<td>Ran out of toilet paper</td>
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<tr>
<td>2</td>
<td>The playground</td>
<td>A fox</td>
<td>Get caught in a tornado</td>
</tr>
<tr>
<td>3</td>
<td>On a cloud</td>
<td>A flutter of butterflies</td>
<td>Chased by a skunk</td>
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<tr>
<td>4</td>
<td>On top of a mountain</td>
<td>A traveling circus group</td>
<td>Become frozen in ice</td>
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<tr>
<td>5</td>
<td>In a treehouse</td>
<td>A flying squirrel</td>
<td>Cursed by a magical spell</td>
</tr>
<tr>
<td>6</td>
<td>On a hot-air balloon</td>
<td>A hungry dragon</td>
<td>Gets challenged to a dance contest</td>
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If you’d like to be featured on the library’s website, submit the completed story to juliana@bakerfreelib.org, or bring it to the library on your next visit!
Science Exploration
How To Make a Rainbow

GETTING STARTED:
To learn how and why rainbows appear, begin by watching this short video provided by Mystery Science. You can scan the QR Code to the right for quick access, or enter the following link:
https://mysteryscience.com/mini-lessons/rainbows?
code=5a83424202472eedb85f7377eab85af3

MATERIALS NEEDED:
Clear drinking glass
Water
Flashlight
Small mirror
Black sticky tape
A dark room*

With this simple experiment, you’ll scatter white light using household objects and make your own indoor rainbows. First, you’ll need to gather the items listed on the left. Then, follow the instructions below to replicate Newton’s prism experiment!

*The darker the room is, the better your rainbow will appear.

STEP 1: Pour water into the clear drinking glass. Place the mirror under the surface of the water. Lean it against the side of the glass so that it stands on its edge.

STEP 2: Use black sticky (electrical) tape to cover most of the flashlight beam, except for a thin strip in the middle. This is the only light that will escape into the room.

STEP 3: Shine the flashlight through the glass at the mirror, and watch as your rainbow appears!

HOW DOES IT WORK?
White light it made up of lots of colors. When a ray of light moves between air and water, it refracts (or bends). Violet light bends more than red light, so the colors split up and spread out. When the colors bounce off the mirror, they spread out even more!

This is how a rainbow forms in the sky. Millions of tiny water droplets (from rain) act like the glass and the mirror to reflect sunlight, scattering the colors to make a rainbow.
“Birding” is a popular hobby around the world, and all it requires is that you head out into nature and look for birds! You don’t need any equipment to get started. Just find a spot in a backyard, playground or park, and start watching. You can record your observations on the front and back of this sheet.

A few tips to help you:

- Start by listing or talking about all the birds you know how to identify. Can you spot the differences between a cardinal, a robin or a sparrow?
- If you spot a bird you’re not sure of, visit www.audubon.org/bird-guide to learn about and identify what you see. You can also try the free app Merlin, which helps to identify birds by asking about their color, shape and size.
- Do you hear birds, but can’t see them? Ask a parent or guardian to download the free app BirdNET, which identifies birds by recording their songs!

The Common Loon, a bird you’ll find on many freshwater lakes in New Hampshire. These birds have a black head and bill (beak), and black and white spotted backs. They are excellent divers, disappearing into the water without a splash!

Birder’s Journal

Note your observations when you see a new bird! There is space on the back of this page for more.

Colors:

Size:

Where was the bird?
- Flying
- In a tree
- On the ground

What kind of bird do you think this is?

Draw, paint or sketch one of the birds you see in this space.
Note your observations when you see a new bird!
There is space on the back of this page for more.

Colors:

Size:

Where was the bird?
- Flying
- In a tree
- On the ground

What kind of bird do you think this is?

Note your observations when you see a new bird!
There is space on the back of this page for more.

Colors:

Size:

Where was the bird?
- Flying
- In a tree
- On the ground

What kind of bird do you think this is?
Explore the Night Sky

Head out after dark to explore the night sky! Find an area with a wide view of the sky (few trees/tall buildings around) and very little light. Bring the whole family along for a stargazing night!

- Take a look at the moon. How many craters do you see? Can you find any rays (bright lines) radiating from the craters?
- What phase is the moon in? When is the next full moon?
- How many constellations can you find in the night sky?
- Can you create your own constellations? Play a giant game of connect-the-dots, and draw your own shapes in the sky. What animals, creatures, objects or people can you make?
- Try to find the North Star (Polaris). The North Star is visible year-round, and seems to remain constant in the sky while other stars rotate around it. You’ll find The North Star at the tail end of “Ursa Minor,” or The Little Dipper.

  Did You Know? Polaris is actually three stars, orbiting very close to one another!

Free Resource

Visit google.com/sky (or use the free Google Sky app) to identify stars, constellations, and planetary bodies in real time! Simply point your phone at the sky to learn exactly what you’re looking at.

Don’t go empty-handed! Make sure to bring along your Stargazing Kit, which includes:

1. Moon Map
1. Moon Phase Diagram
1. Constellation Viewing Guide
1. Little Guide to Summer Stargazing

To learn more about constellations, visit:
www.dkfindout.com/us/space/constellations/

Register for programs and future kits at www.bowbakerfreelibrary.org.