A FUN-FILLED LEARNING ACTIVITY BOOK FOR ALL AGES!
This activity book is designed for elementary students but can be fun for all ages!

The book contains general information about NOAA's Joint Polar Satellite System, a collaborative effort between NOAA and NASA.

For more information on the JPSS mission, visit:
nesdis.noaa.gov/jpss

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The Joint Polar Satellite System (JPSS) is a group of satellites that look at the Earth at all times.

These satellites go around the Earth, in a path called a **Polar Orbit**. They move over the North and South poles fourteen times a day!

One animal that lives at both of these poles is a seal.

To explain what JPSS satellites do, imagine that JPSS is a friendly, Earth-seeing seal named **JP the Super Seal**. JP the Super Seal will share a story about what he does every day.

**ACTIVITY: COLOR JP!**

COLOR JP and the satellite.
As a flying seal that travels around the Earth, JP sees the North Pole, the South Pole and every country.

ACTIVITY: COLOR & MATCH

COLOR the Earth. Help JP place the correct flag on our planet.
MATCH the North Pole or South Pole on the correct flags on Earth.

Answers can be found on page 25.
JP the Super Seal has super sight,
to see the world during day or night.
His special eyes gave a unique view, and cold ocean water was vivid and blue!

Things looked red when it was hot, and things looked blue when it was not.

**ACTIVITY: COLOR BY NUMBER!**

COLOR the sea surface temperature using the color key below.

<table>
<thead>
<tr>
<th>Color Key</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
</tr>
<tr>
<td>Blue</td>
</tr>
</tbody>
</table>
JP could see all the weather from space. He saw clouds and towns and mountains and lakes.

**ACTIVITY: SPOT THE DIFFERENCE!**

CIRCLE the twelve differences in the second picture.

Answers can be found on page 25.
JP had tools that allowed him to measure, the ocean, the air and Earth’s changing weather.
ACTIVITY: COLOR THE WEATHER!

Help JP collect weather data!

COLOR all of the symbols that are related to weather!
On JP’s adventures he saw many things, like cornfields and flowers and trees in the spring.

**ACTIVITY: COLOR JP IN SPRING!**

COLOR JP the Super Seal as he explores spring weather!
And in the winter, he watched the storms blow, helping the polar bears blend in the snow.

JP loves flying around and around, seeing Earth's seasons change from high above ground!
**ACTIVITY: DRAW THE WEATHER!**

**DRAW** the weather happening around you. **DRAW** what the trees look like during the winter, spring, summer and fall!

Winter

Spring

Fall

Summer
Some days were stormy but JP was tough, he watched over our planet when weather was rough.

JP saw lightning and fires for days, as trees in the forest were all set ablaze!
JP saw hurricanes forming at sea,
And sent back the data to warn you and me!

**ACTIVITY: CONNECT THE DOTS!**

CONNECT the dots to the hurricane swirling in the ocean.

He gathers the data as fast as he can,
to give people the knowledge
to make the best plan.

Answers can be found on page 26.
During a hurricane some people were saved...

...because JP told them, "Look out for that wave!"
What's this?

A ship stuck in ice with no way to be freed!
Some help from JP might be just what they need.
JP showed some scientists his view from the sky,
And mapped for the captain,
a route he could try.

ACTIVITY: HELP JP AND THE SCIENTISTS!
DRAW what comes next in the pattern!
ACTIVITY: COMPLETE THE MAZE!
Help JP the seal send his photos to his scientist friends! FOLLOW the maze to get the photos to the scientist.

Answers can be found on page 27.
JP guided the people way down on the boat to follow a path that would set them to float!

**ACTIVITY: GUIDE THE SHIP!**

**DRAW** a line that follows the path to get the ship out of the ice!
“How did you do it?” asked the Captain, relieved.

“JP led the way until you were retrieved!”
JP keeps watch every day,
to keep you safe as you work, learn and play!
“Thanks Super Seal for helping us see, in places where people can’t actually be!”
ACTIVITY: DRAW A SEAL!

Use the step-by-step guide below to draw a seal.

1. [Drawing of a seal's back]
2. [Drawing of the seal's front legs]
3. [Drawing of the seal's tail]
4. [Drawing of the seal's body]
5. [Drawing of the seal's face]
6. [Drawing of the seal's limbs]

Use the grid to help you copy the drawing!
ACTIVITY: WORD SEARCH!

FIND the word in the puzzle.
Words can go in any direction.
Words can share letters as they cross over each other.

Answers can be found on page 27.
ACTIVITY: CONNECT THE DOTS!

CONNECT the dots to finish the path for JP the Super Seal and the JPSS satellite as they go around the Earth.
THANK YOU TO EVERYONE WHO CONTRIBUTED!

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Help JP the Super Seal dress for the weather! COLOR and CUT OUT these clothes for each season as JP travels around the world.

Instructions:
1. Color the clothing.
2. Cut out JP the Super Seal.
3. Cut out the clothing pieces following the dotted lines. Be sure to avoid cutting over the square tabs sticking out.
4. Fold tabs over the seal to dress JP up & enjoy!