



## Astronomy Websites

### Used in conjunction with the Starlab lessons

Because the Starlab is used to teach astronomy to all grade levels in the elementary school, many topics are repeated and may be introduced and/or reinforced inside the Starlab. Some of these topics are telescopes, the Hubble Space telescope, the sun as the closest star, the Milky Way galaxy, the moon and its phases, the planets, plutoids, dwarf planets, other galaxies, nebulas, stars, the space shuttle, constellations, and Greek and Roman mythology. Listed below are the main topics emphasized per grade level.

#### A. Pre-Kindergarten/Kindergarten

**\*\*Main topic-celestial objects as seen from space-the sun, moon, earth, the stars, the Milky Way galaxy\*\***

1.

[http://www.nasa.gov/audience/forkids/kidsclub/flash/games/levelone/KC\\_Whats\\_Next\\_Patterns.html](http://www.nasa.gov/audience/forkids/kidsclub/flash/games/levelone/KC_Whats_Next_Patterns.html)

NASA for Kids

This website has three computer games dealing with astronomy and space that use the concepts of patterns, matching, and letter identification.

2. <http://www.kidsastronomy.com/fun>

This website offers at least five different types of activities and opportunities for young students to play the “Memory Game” match shapes and colors, paint stars, and design their own planet.

3. [www.zula.com](http://www.zula.com)

The National Science Teacher’s Association (NSTA) recommends this interactive website for students, teachers, and parents. The episodes are broadcast as an animated children’s series called “The Zula Patrol” on Public Television. The “Zula Patrol” is designed for prek-3<sup>rd</sup> grade students and covers such topics as galaxies, the universe, rotation, revolution, the moon, and the stars.

4. Safari Montage Videos available through the BCPS Safari Montage Resource Portal:

- All about the Moon
- Harriet Tubman
- Magic School Bus Gets Lost in Space
- Magic School Bus Sees the Stars

#### B. 1st Grade

**\*\* Main topic-the sun as our closest star\*\***

1. <http://www.frontiernet.net/~kidpower/astronomy.html>

Astronomy for Kids

This website features great views of the planets, moon, sun, stars, and more with easy-to-read bulleted descriptions of each celestial object.

2. <http://starchild.gsfc.nasa.gov/docs/StarChild/>

This website provides pictures and information resources about the stars and space.

3.

[http://www.windows.ucar.edu/tour/link=/the\\_universe/Constellations/constnavi.html&edu=elem](http://www.windows.ucar.edu/tour/link=/the_universe/Constellations/constnavi.html&edu=elem)

Teachers for many grade levels can use this website on the constellations. The teacher can access myths about numerous constellations from a variety of cultures.

4. [www.zula.com](http://www.zula.com)

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5. Safari Montage Videos available through the BCPS Safari Montage Resource Portal:

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## C. 2nd Grade

\*\*Main topics-the phases of the moon and the Apollo 11 mission to the moon\*\*

1. <http://www.brainpop.com/science/space/moon>

Brain POP: The Moon

This website features a great animated student friendly movie about the moon.

2. <http://spaceplace.jpl.nasa.gov>

The Space Place

3.

[http://www.windows.ucar.edu/tour/link=/the\\_universe/Constellations/constnavi.html&edu=elem](http://www.windows.ucar.edu/tour/link=/the_universe/Constellations/constnavi.html&edu=elem)

Teachers for many grade levels can use this website on the constellations. The teacher can access myths about numerous constellations from a variety of cultures.

4. <http://amazing-space.stsci.edu>

This site has some great interactive space activities for the students to explore.

5. [www.zula.com](http://www.zula.com)

The National Science Teacher's Association (NSTA) recommends this interactive website for students, teachers, and parents. The episodes are being broadcast as an animated children's series called "The Zula Patrol" on Public Television. The "Zula Patrol" is designed for prek-3<sup>rd</sup>

grade students and covers such topics as galaxies, the universe, rotation, revolution, the moon, and the stars.

6. Safari Montage Videos available through the BCPS Safari Montage Resource Portal:

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- Harriet Tubman
- Magic School Bus Gets Lost in Space
- Magic School Bus Sees the Stars

## D. 3rd Grade

\*\*Main topic-the color, magnitude, and temperature of stars\*\*

1. <http://www.frontiernet.net/~kidpower/astromy.html>

Astronomy for Kids

This website features great views of the planets, moon, sun, stars, and more with easy-to-read bulleted descriptions of each object.

2. [www.nasa.gov/kids.html](http://www.nasa.gov/kids.html)

This student friendly website allows the student to research more information about space related questions.

3. <http://starchild.gsfc.nasa.gov/docs/StarChild/>

The Solar System link provides pictures and information about the stars and space.

4.

[http://www.windows.ucar.edu/tour/link=/the\\_universe/Constellations/constnavi.html&edu=elem](http://www.windows.ucar.edu/tour/link=/the_universe/Constellations/constnavi.html&edu=elem)

Teachers for many grade levels can use this website on the constellations. The teacher can access myths about numerous constellations from a variety of cultures.

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7. <http://solarsystem.nasa.gov/planets/index.cfm>

This website can be used by the teacher as a resource for researching valuable information about space and the stars.

8. <http://amazing-space.stsci.edu>

This site has some great interactive space activities for the students to explore.

9. Safari Montage Videos available through the BCPS Safari Montage Resource Portal:

- All about the Moon
- All about the Earth

- Bill Nye: The Moon
- Bill Nye: Outer Space
- Bill Nye: The Planets
- Bill Nye: The Sun
- Eyewitness: Planets
- Harriet Tubman
- Magic School Bus Gets Lost in Space
- Magic School Bus Sees the Stars
- Stars and Constellations
- Sun, Earth, Moon

## E. 4th Grade

\*\*Main topic-the planets and how they are alike and different\*\*

1. <http://www.frontiernet.net/~kidpower/astronomy.html>

Astronomy for Kids

This website features great views of the planets, moon, sun, stars, and more with easy-to-read bulleted descriptions of each object.

2.

[http://www.classzone.com/books/earth\\_science/terc/content/visualizations/es2701/es2701page01.cfm?chapter\\_no=visualization](http://www.classzone.com/books/earth_science/terc/content/visualizations/es2701/es2701page01.cfm?chapter_no=visualization)

On this animated web page, students can take a virtual trip from the Sun to Pluto traveling at 300 times the speed of light. This is a good visualization demonstrating the vast distances between the planets in our Solar System.

3. <http://starchild.gsfc.nasa.gov/docs/StarChild/>

The Solar System link provides pictures and information about the planets.

4. [http://spaceplace.nasa.gov/en/kids/mars\\_rocket.shtml](http://spaceplace.nasa.gov/en/kids/mars_rocket.shtml)

Mars Adventure

Very interactive and fun website for students where they make decisions about what supplies would be needed on a spaceship that will blast off on a mission to Mars!

5. [Http://www.brainpop.com/science/space/solarsystem](http://www.brainpop.com/science/space/solarsystem)

Brain POP: Solar System

6. <http://pds.jpl.nasa.gov/planets>

Welcome to the Planets

7.

[http://www.windows.ucar.edu/tour/link=/the\\_universe/Constellations/constnavi.html&edu=elem](http://www.windows.ucar.edu/tour/link=/the_universe/Constellations/constnavi.html&edu=elem)

Teachers for many grade levels can use this website on the constellations. The teacher can access myths about numerous constellations from a variety of cultures.

11. Safari Montage Videos available through the BCPS Safari Montage Resource Portal:

- All about the Moon
- Bill Nye: The Moon
- Bill Nye: Outer Space
- Bill Nye: The Planets
- Bill Nye: The Sun
- Constellation Myths
- Eyewitness: Planets
- Harriet Tubman
- Stars and Constellations
- Sun, Earth, Moon

## F. 5th Grade

\*\*Main topics- nebulas, the Milky Way galaxy, other galaxies\*\*

1. <http://school.discoveryeducation.com/schooladventures/universe/galaxytour/milkyway.html>

This web page can be found on the BCPS Library Information Services website as part of its “Oh Starry Night” GT science research module for grade 4. (Used in conjunction with the 5<sup>th</sup> grade Starlab lesson.)

2. <http://amazing-space.stsci.edu>

Amazing Space

This website has great interactive space activities for the students to explore. It also includes materials for the Solar System Trading Card Collection Game. On this link, students choose planets from the Solar System, answer questions on the planets, and if successful, collect as many planet trading cards as they can for their collection.

3.

[http://www.windows.ucar.edu/tour/link=/the\\_universe/Constellations/constnavi.html&edu=elem](http://www.windows.ucar.edu/tour/link=/the_universe/Constellations/constnavi.html&edu=elem)

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- Eyewitness: Planets
- Harriet Tubman
- Stars and Constellations
- Sun, Earth, Moon