Constellations

SLIDE NAVIGATION

1. Question & Research Task

Have you ever looked in the night sky and noticed that a constellation you saw during the summer is much lower in the sky later in the year or gone altogether?

Today, you are going to find out what happens to the constellations throughout the year.

Watch the video to learn more about the stars.

Video Source: Discovery Education

In this Slam Dunk, you will conduct brief, focused research to respond to the inquiry question:

Why does a constellation seem to move in the night sky?

2. Information Sources

Watch the two videos below to find out why constellations appear higher or lower in the sky.

Stars and Seasons

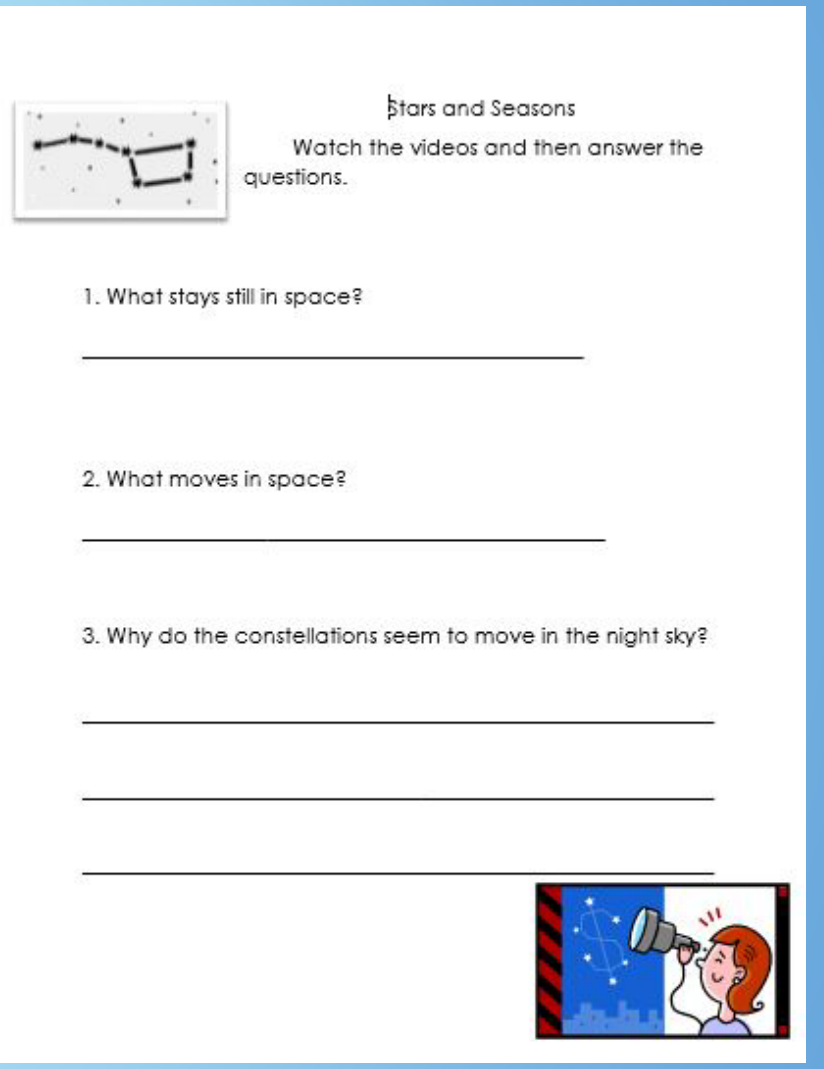
The North Star

Video Source: Discovery Education

3. Student Activity

After watching the videos on slide 2, click on the Stars and Seasons worksheet and answer the 3 questions.

This will help you complete your assessment activity.



Stars and Seasons

Watch the videos and then answer the questions.

1. What stays still in space?

_____

2. What moves in space?

_____

3. Why do the constellations seem to move in the night sky?

_____

_____

_____

Image Source: Clipart.com by subscription

4. Assessment Activity

Why does a constellation seem to move in the night sky?

Your best friend doesn't understand why the constellations seem to move around the night sky.

Create a Wixie recording to explain to your best friend why the constellations seem to move.

Use this **script** to help you plan out what to say.

Use this **rubric** to help you finish your work.

Click the image to go to the Apps Portal to create a Wixie recording

5. Enrichment Activities

Watch the video below to learn more about the life cycle of a star!

Video Source: Discovery Education by subscription

Read on TumbleBooks! See your teacher/ librarian for login information, if needed.

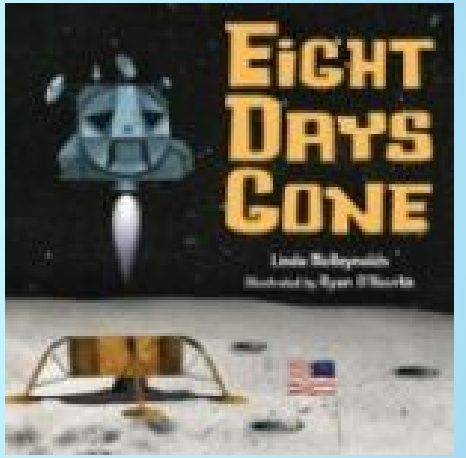


Image Source: Tumblebooks by subscription

Practice drawing the constellations!

Image Source: ABCYa.com

6. Teacher Resources

SLIDE NAVIGATION

Learning Standards Alignment

Next Generation Science Standards

- **ESS1.A: The Universe and its Stars:**

Patterns of the motion of the sun, moon, and stars in the sky can be observed, described, and predicted. (1-ESS1-1)

Common Core State Standards for English Language Arts & Literacy

Reading: 1. Read closely to determine what the text says explicitly and to make logical inferences from it; cite specific textual evidence when writing or speaking to support conclusions drawn from the text.

Writing: 7. Conduct short as well as more sustained research projects based on focused questions, demonstrating understanding of the subject under investigation.

AASL Standards Framework for Learners Inquire: Build new knowledge by inquiring, thinking critically, identifying problems, and developing strategies for solving problems.

Think: Learners display curiosity and initiative by:

I.A.2 Recalling prior and background knowledge as context for new meaning.

Create: Learners engage with new knowledge by following a process that includes:

I.B.1 Using evidence to investigate questions. I.B.3 Generating products that illustrate learning.

Share: Learners adapt, communicate, and exchange learning products with others in a cycle that includes:

I.C.1 Interacting with content presented by others.

Grow: Learners participate in an ongoing inquiry-based process by:

I.D.2 Engaging in sustained inquiry.

P21 Framework: 21st Century Student Outcomes

3. Information, Media & Technology Skills: Information Literacy: Access information efficiently and effectively; Use information accurately and creatively for the issue or problem at hand.

ICT Literacy: Use technology as a tool to research, organize, evaluate and communicate information.

Grade 1: Science: Space Unit

Time Frame: Two to Three 50-minute periods with Grade 1 accelerated students.

Differentiation strategies for this lesson:

- Have students use learning supports provided in BCPS Digital Content found in the Apps Portal. Refer to Digital Content Snapshot/Support pages as needed.

Notes to the teacher:

- Collaborate with your school library media specialist to plan and implement this lesson.
- Provide students with login information as needed to authenticate BCPS Digital Content. Login information is available on the **BCPS Digital Content** page found via the Apps Portal
- Slide #4 may require teachers to model the use of a Wixie recording accessed in the Apps Portal.
- This Slam Dunk research project should be used in conjunction with the Grade 1 science Space Unit.
- Students will have to search for Eight Days Gone in TumbleBooks found in BCPS Digital Content found in the Apps Portal.