

ACTIVITY PACK

STEAM Queen
RESOURCES FOR MIDDLE SCHOOLS

Name: _____

Date: _____



SUMMERTIME SCIENCE

The Science of Summer: Investigating Seasonal Changes and Phenomena

Summer turns the world into an living laboratory full of everyday science to discover. As temperatures rise and days get longer, this season provides a perfect opportunity to investigate fascinating natural events and processes.

THE SUMMER SOLSTICE EXPLAINED



Have you noticed how early the sun rises and how late it sets during summer?

The **summer solstice**, around June 21st, marks the peak of summer and the longest day of the year in the Northern Hemisphere. This day occurs because Earth's axis is tilted, causing the sun to be directly overhead at the **Tropic of Cancer**.

Did You Know?

Human eyes have been called the "sun" and "moon" of the mind.

Name: _____

Date: _____



SUMMERTIME SCIENCE CHECKLIST

10 Summer Science Topics With Embedded Questions
NO PREP - Print & Go!

Tons of Activities Including:
Summer Science Bucket List,
Coloring Page & MUCH More!

SCIENCE • TECHNOLOGY • ENGINEERING • ART • MATHEMATICS

SUMMER SCIENCE

10 TOPIC ARTICLE SET PLUS PUZZLES & PROJECTS!



Learn About:



- SUMMER SOLSTICE
- POLLINATORS
- HEAT WAVES
- PERSEID METEOR SHOWER
- METAMORPHOSIS
- HYDRATION
- SUMMER STORMS
- SCIENCE OF SPF & MORE!

FOR MIDDLE SCHOOL & UP



SUMMERTIME SCIENCE

WEATHER WONDERS: UNDERSTANDING SUMMER STORMS

Summer storms can be both fascinating and intense. They start when the sun heats the ground unevenly, causing warm, moist air to rise quickly (due to **convection**). This air cools, resulting in **condensation**, forming towering clouds that can lead to thunderstorms with heavy rain and lightning.

Watching a thunderstorm can be an exciting way to learn about the **water cycle**. Have you ever noticed how quickly the weather can change during a summer storm?

Review & Reflect:

1. What safety measures should you take during a thunderstorm?

2. Describe the water cycle and how summer storms fit into it.

Did You Know?



Lightning can heat the air around it to temperatures as high as 50,000 Kelvins, which is about five times hotter than the surface of the sun!

TARGAZING IN SUMMER: WHAT CAN YOU SEE?

Your summer nights are perfect for looking up at the stars. The Earth's rotation and tilt make the center of the **Milky Way** visible, offering a stunning view of stars and planets.

The **Perseids meteor shower** occurs annually between July 17 and August 24, peaking around August 9-13. During this time, you may see many shooting stars.



Review & Reflect:

1. Have you noticed how different the night sky is during different seasons?

2. How does Earth's rotation affect what we see in the night sky?

3. What does the Perseids meteor shower tell us about Earth's atmosphere?

Seventh Grade Science Summer Packet

Walter Isaacson



Seventh Grade Science Summer Packet:

Delve into the emotional tapestry woven by Emotional Journey with in **Seventh Grade Science Summer Packet** . This ebook, available for download in a PDF format (PDF Size: *), is more than just words on a page; itis a journey of connection and profound emotion. Immerse yourself in narratives that tug at your heartstrings. Download now to experience the pulse of each page and let your emotions run wild.

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