

STATES OF MATTER

States of

Matter

& The Water Cycle

Name: Jenny

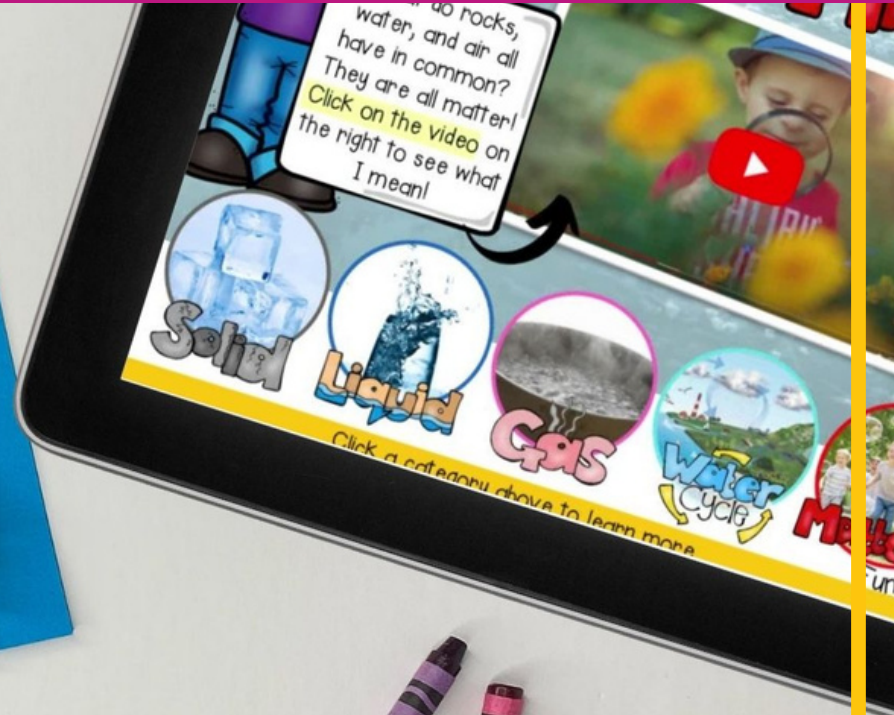


Solids

Liquids

Gases

The Water Cycle



 **LNK** **ativity**
Interactive Learning Guides

WAIT!

Thank you for considering this LINKtivity for your classroom, but before you make a decision - you should know that you can get **access to this LINKtivity + PLUS our entire library** for about the same price as a single LINKtivity!

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- ✓ The **entire growing LINKtivity® library** inside the Membership (LINKtivities for all content areas)
- ✓ ALL **future LINKtivities** to be added to the membership (new releases each month!)
- ✓ **Teacher guides** to help you set up each LINKtivity® successfully in your classroom
- ✓ **Student resources** that go along with each LINKtivity (printable OR digital)
- ✓ **Kid-friendly rubrics** and **answer keys** for each LINKtivity®



JOIN NOW





Your students are going to love this hands-on approach to learning about the states of matter and the water cycle. Resource includes a LINKtivity digital learning guide, a student flipbook (printable or digital), answer key, a rubric, and a teacher guide.



More Sample Slides

Gas

Gases do not have any specific shape. The gas particles are so loose that they spread out to fit the container that they are in.

EXAMPLES:

- helium gas inside the balloon
The particles of the helium gas inside the balloon flow freely and spread far apart.
- carbon dioxide (the gas that's in the air we breathe out)
- oxygen (the gas that's in the air we breathe in)

The water we have on Earth is recycled over and over in a process called the water cycle...

...and - the water cycle is made possible through the states of matter! Click on each stage below to find out more!

Runoff & Collection

Evaporation

Condensation

Precipitation

Water in our lakes, oceans, rivers, & other bodies of water are heated up by the sun. The sun's heat causes the particles in the liquid water to move and spread out, eventually changing it into a gas. The gas rises into the air as water vapor. During evaporation, water goes from a liquid to a gas.

Water particles in the gas.

Water particles in the liquid.

Evaporation

As water rises into the air after it evaporates, it begins to cool again. The particles lose energy and begin to move slowly. This causes them to condense, or change back into a liquid. The condensed water particles can clump together to form a cloud. During condensation, water goes from a gas to a liquid.

Water particles in the liquid inside the cloud.

Water particles in the gas.

Condensation

States of Matter I SPY

Solids, liquids, and gases are everywhere! See if you can spy them in the scenes below! Click on each scene to find all three states of matter in the world around us!

Camping

Theme Park

Science Class

What solids, liquids, and gases can you spy in this camping scene?

tent (solid)

fire (gas)

air (gas)

canoe (solid)

lantern with propane gas (solid & gas)

lake (liquid)

table, cups, pot, thermos, cooler, pitcher (solids)

wood (solid)

trees & grass (solid)

FUN Zone

Click on any game or video.

GAMES

VIDEOS

States of Matter I SPY Quiz Yourself!

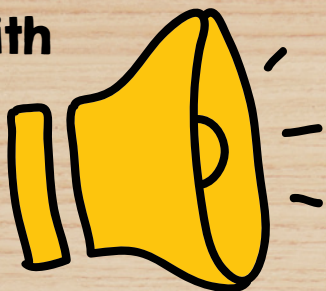
When you boil water to make hot chocolate, you are changing a liquid to a _____.

Check My Answer



This LINKtivity is provided with

AUDIO SUPPORT



After it rains (*water as a liquid*) or snows (*water as a solid*), the water runs off the land and collects back into the rivers, lakes, oceans, and streams. It can also be soaked into the ground to help plants grow. Water is always moving and being recycled through the water cycle. This cycle changes water through the three states of matter over and over again.

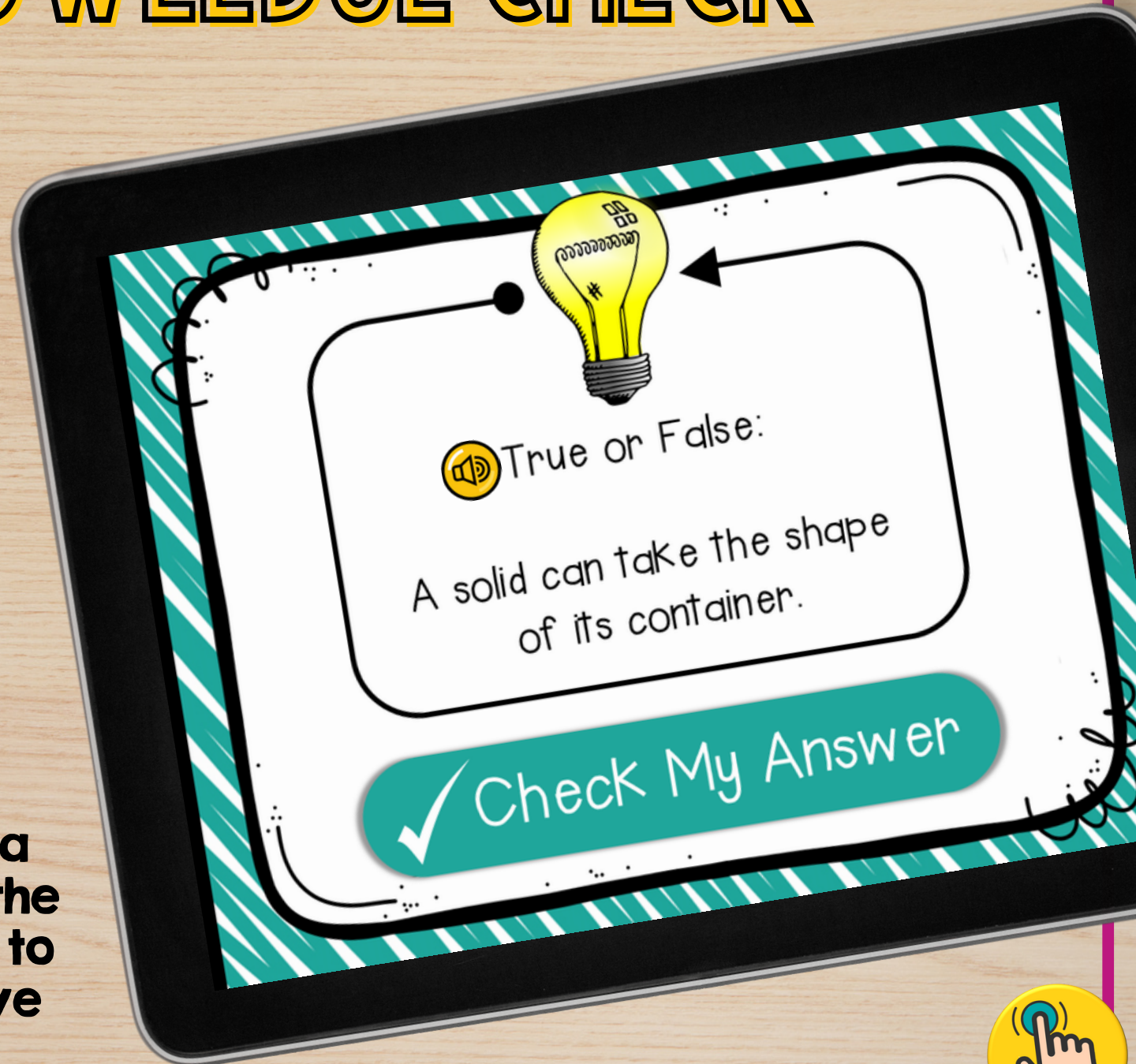
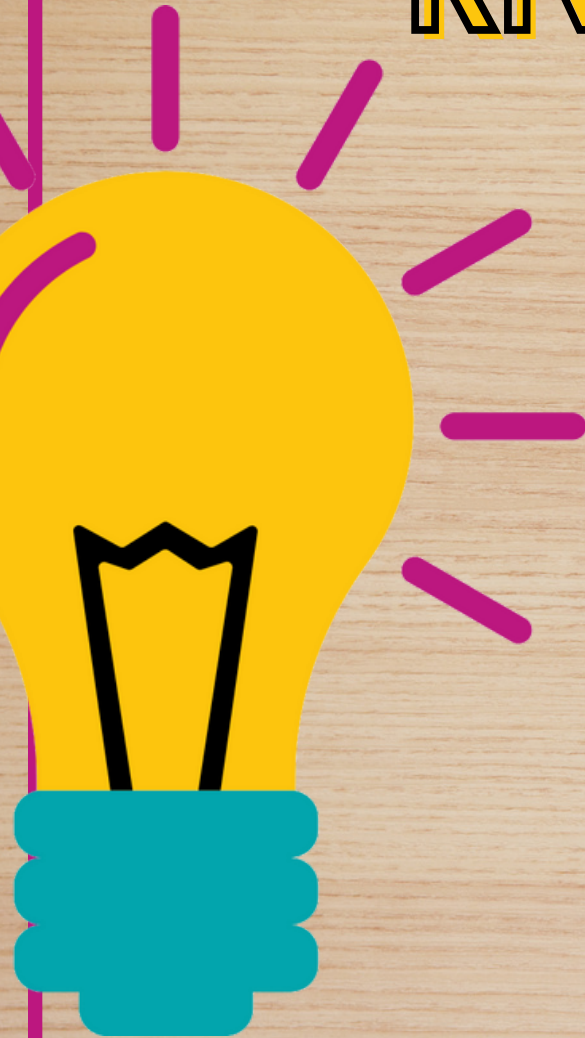
Water particles in the form of runoff liquid.

Runoff & Collection

Perfect for English language learners or students who could use a little extra support!



KNOWLEDGE CHECK

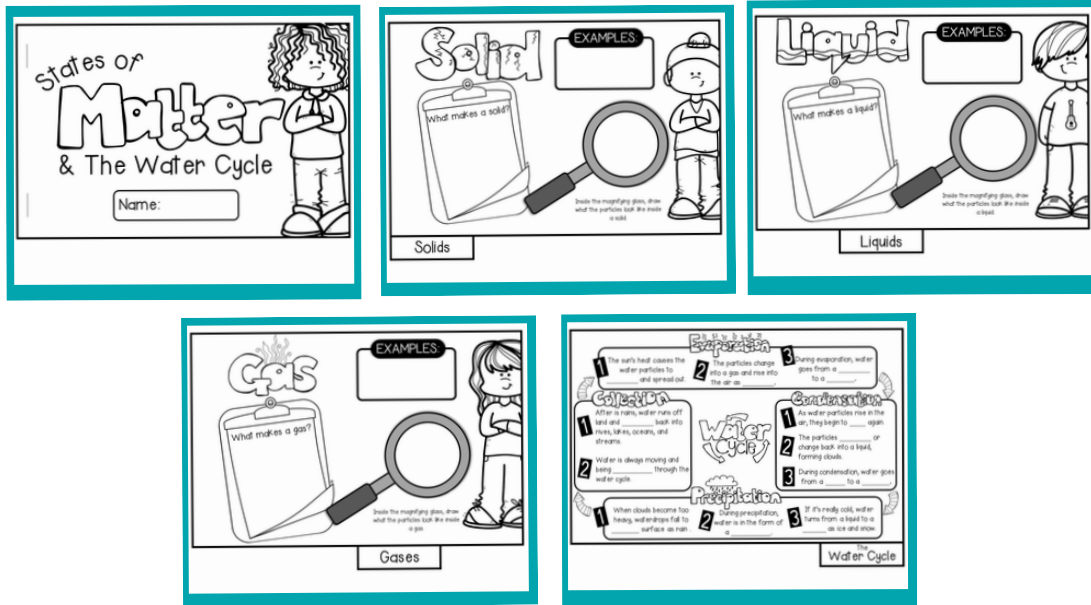


Students complete a quick self-check at the end of the LINKtivity to show what they have learned!



Printable & Digital Student Flipbook

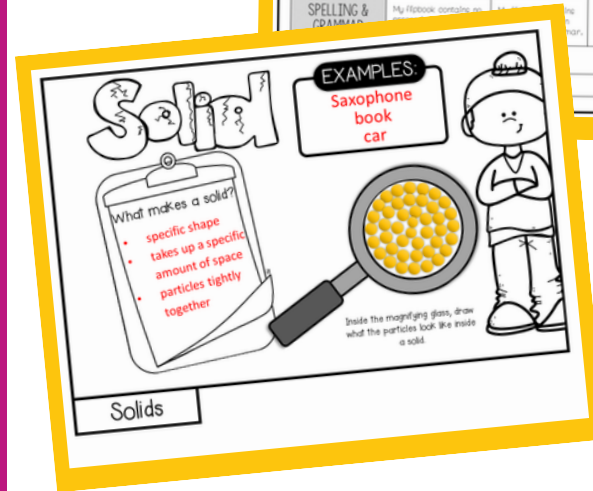
Printable Flipbook for LINKtivity



Digital Flipbook for LINKtivity in Google Slides

LINKtivity : STUDENT FLIPBOOK RUBRIC

	4 - EXCELLENT	3 - GOOD	2 - SATISFACTORY	1 - NEEDS IMPROVEMENT
NEATNESS & APPEARANCE	My Flipbook is very neat and easy to read. I neatly colored in my illustrations with great detail. It is clear that I took my time to make my Flipbook reflect my learning.	My Flipbook is somewhat neat. Some of my writing is hard to read. I neatly colored in my illustrations.	My Flipbook is somewhat messy. Some of my writing is hard to read. I colored in my illustrations.	My Flipbook is quite sloppy. My writing is hard to read. Illustrations are NOT colored, or are sloppily done.
ACCURACY & COMPLETENESS	The information in my Flipbook is 100% correct. I've included many details from the Link 4 Think and have put what I've learned clearly in my own words. I have included information that goes above and beyond what is required.	The information in my Flipbook is mostly correct. I've included several details from the Link 4 Think, written neatly in my own words. My Flipbook includes all of the required written responses.	My Flipbook contains several incorrect or missing pieces of information. The information in my Flipbook does not match the Link 4 Think.	My Flipbook has many incorrect or missing pieces of information. I struggled to use the information from the Link 4 Think to complete my Flipbook correctly.
SPELLING & GRAMMAR	My Flipbook contains no errors in spelling and grammar.	My Flipbook contains some errors in spelling and grammar.		My Flipbook contains many errors in spelling and grammar.



Answer Key & Rubric



BONUS RESOURCES

Lesson Plan

LESSON

ESSENTIAL QUESTIONS:

What are the states of matter?



How are the states of matter observed within the water cycle?

Standards Covered

2.PS1.1, 2.PS1.4, 5.PS1.2

Materials Needed

States of Matter & Water Cycle LINKtivity®
States of Matter & Water Cycle student flipbook (optional)
Matter SCOOT Cards & Recording Sheet

Teacher Preparation

Preview the States of Matter & Water Cycle LINKtivity® and plan for how you will share the LINKtivity with students (ex. assign link in Google Classroom, prepare QR codes, etc.) Make copies of the flipbook (optional).
Print off the Matter SCOOT cards (1 set) and recording sheets (per 3-4 students). Review the directions for playing SCOOT on the following page.

Lesson Introduction (10 min.)

- Introduce the essential questions.
- Provide each student with a **SCOOT recording sheet**. Divide students into groups of 3-4 to play SCOOT. Encourage them to write down verbs and adjective words instead of just naming the object on the card (e.g., hard, soft, flowing, steamy).
- After students have had a chance to observe each card, have groups share some of their words for some of the objects.
- Explain that each card is a picture of matter. Matter comes in all shapes, sizes, and states. Define matter as anything that takes up space and has mass.
- Explain that matter can be found in three forms, or states: solid, liquid, or gas. Identify at least one example of each state of matter in the picture cards.

Lesson Activity (20-30 mins)

Have students complete the **States of Matter & Water Cycle LINKtivity®**. While navigating the LINKtivity, students have the option to complete the **flipbook**. You might break this LINKtivity up into 2 days: one day for exploring the solid, liquid, & gas categories; a second day for exploring the water cycle.

Optional Extension Activities

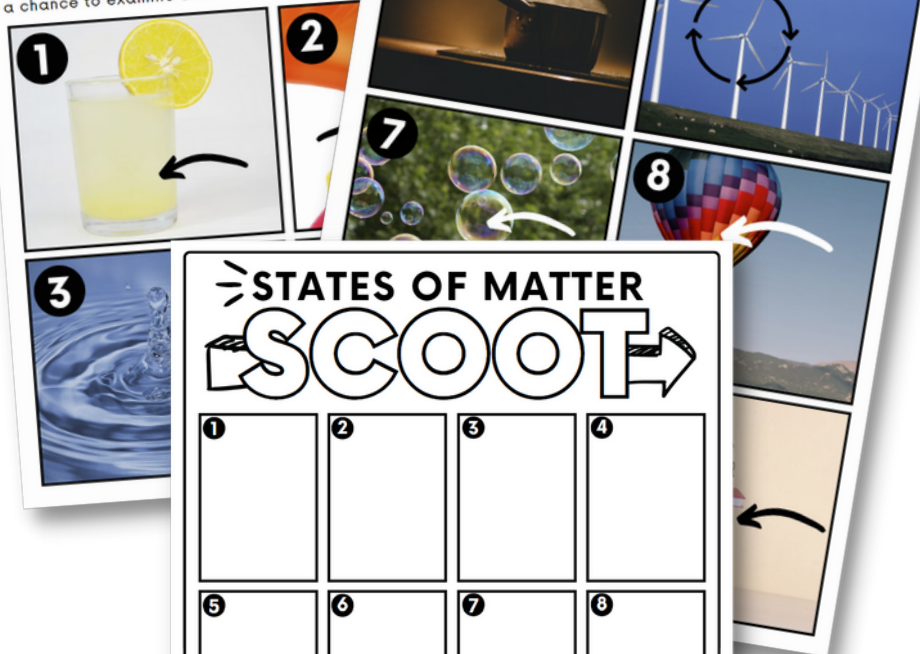
- Play SCOOT again, this time having students identify each picture as solid, liquid, gas.
- Ask students to write a short story or draw a comic strip depicting a water droplet's journey through the water cycle. This integrates language arts skills with science concepts.
- Help students see the changing of states of matter by use an electric hot pot and heating up ice until it boils.

Lesson Conclusion (2-5 min.)

Review essential questions and have students share their responses in light of what they have learned.

STATES OF MATTER SCOOT

To Play: Divide students into groups of 3-4. Provide each group with a SCOOT recording sheet. Give each group one of the cards below representing matter in a solid, liquid, or gas state. Each group will have 30 seconds to observe the picture. Write down any descriptive words they would use to describe the picture (e.g., runny, sticky, hard, invisible, steamy, etc.). When the 30 seconds are up, students will 'scoot' their card to the next group. They will receive a new card to observe. Continue until all groups have had a chance to examine each card.



STATES OF MATTER SCOOT

1	2	3	4
5	6	7	8
9	10		

TO PLAY:
Observe each number card with your group. You will have 30 seconds to write down any descriptive words that you would use to describe each picture in the corresponding box.

“SCOOT” GAME

