

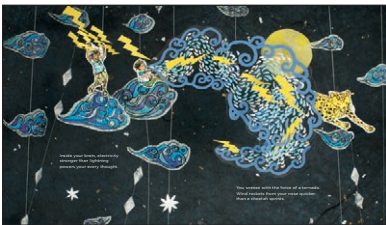
A Common Core Guide to

You Are Stardust

For Grades 3-5



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You Are Stardust says wind rockets from your nose quicker than a cheetah sprints. Have students research the answers to some of the following questions and add others according to your students' interests.

- How fast does a cheetah run?
- At what speed does a turtle walk?
- How quickly does a snail crawl?
- How fast can a human run?

As students conduct their research, ask them to create a visual representation (graph) for the class that compares the speeds of each of these animals and to list their sources of information. How does gaining this knowledge help them interpret the book?

Common Core State Standards Fulfilled

RS 4.7 WS 4.7 WS 4.8



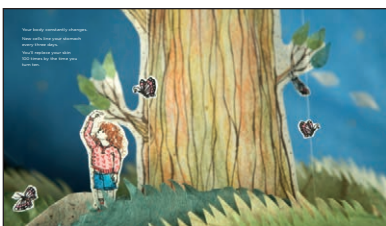
Provide students with a range of books on the topic of the water cycle. Have students research and then present their understanding of the way the water cycle works to the class.

Conduct an experiment that demonstrates the water cycle. A simple experiment involves filling a large bowl with a little water and placing a smaller, empty container in its center. Cover the large bowl with cling wrap and place it in a sunny location.

Record observations of how long it takes for condensation to form on the cling wrap, if the rate of condensation was affected by lack of light or more light, and if changing the color of the water affects the rate of condensation.

Common Core State Standards Fulfilled

RS 4.3 RS 4.8 RS 4.9 WS 4.7



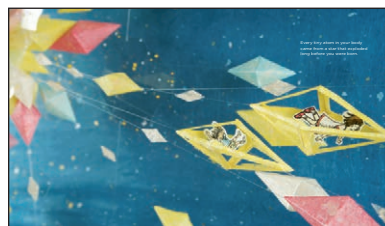
You Are Stardust claims our bodies constantly change. Have your students investigate the following questions about your ever-changing body:

- How fast does your hair grow?
- How much will your nails grow in a month?
- How many teeth will you get in your lifetime?
- Do your fingernails and toenails grow at the same rate?
- Do your nose and ears continue to grow, even when you are an adult?
- How many times each year do you get new skin?

Have students collect and cite these facts. If possible, publish your classroom's findings with photographic illustrations on your classroom Web site.

Common Core State Standards Fulfilled

RS 3.1 RS 3.7 WS 3.6 WS 3.7 WS 3.8



You Are Stardust says, "Every atom in your body came from a star that exploded long before you were born."

Ask your students to imagine themselves as an atom in an exploding star. Have your students describe the experience using clear and vivid language. Prompt them to imagine who and what else the atom might have been part of before it became a part of us.

Common Core State Standards Fulfilled

RS 5.3 WS 5.3



Common Core State Reading Standards fulfilled using this guide

<p>RS 3.1 Standard 1 for third grade Ask and answer questions to demonstrate the understanding of a text, referring explicitly to the text as the basis for the answers.</p>	<p>RS 4.8 Standard 8 for fourth grade Explain how an author uses reason and evidence to support particular points in a text.</p>
<p>RS 3.7 Standard 7 for third grade Use information gained from illustrations (e.g., maps, photographs) and the words in a text to demonstrate understanding of the text (e.g., where, when, why, and how key events occur).</p>	<p>RS 4.9 Standard 9 for fourth grade Integrate information from two texts on the same topic in order to write or speak about the subject knowledgeably.</p>
<p>RS 4.3 Standard 3 for fourth grade Explain events, procedures, ideas, or concepts in a historical, scientific, or technical text, including what happened and why, based on specific information in the text.</p>	<p>RS 5.3 Standard 3 for fifth grade Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text.</p>
<p>RS 4.7 Standard 7 for fourth grade Interpret information presented visually, orally, or quantitatively (e.g., in charts, graphs, diagrams, time lines, animations, or interactive elements on Web pages), and explain how the information contributes to an understanding of the text in which it appears.</p>	

Common Core State Writing Standards fulfilled using this guide

<p>WS 3.6 Standard 6 for third grade With guidance and support from adults, use technology to produce and publish writing as well as interact and collaborate with others.</p>	<p>WS 4.7 Standard 7 for fourth grade Conduct short research projects that build knowledge through investigation of different aspects of a topic.</p>
<p>WS 3.7 Standard 7 for third grade Conduct short research projects that build knowledge about a topic.</p>	<p>WS 4.8 Standard 8 for fourth grade Recall relevant information from experiences or gather information from print and digital sources; take notes and categorize information, and provide a list of sources.</p>
<p>WS 3.8 Standard 8 for third grade Recall information from experiences or gather information from print and digital sources; take brief notes on sources and sort evidence into provided categories.</p>	<p>WS 5.3 Standard 3 for fifth grade Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences.</p>

