Classroom Discussion and Activity Guide

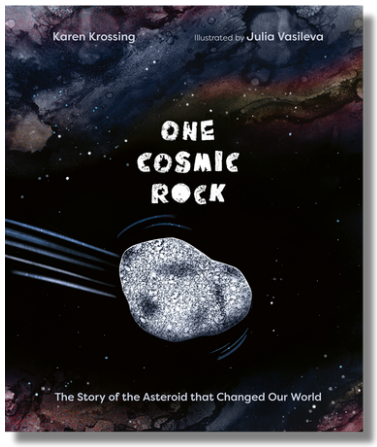
Extension Activity: Reflection—Text-to-Self; Text-to-World

Extension Activity: Life Science—Name That Life-Form Game

One Cosmic Rock: The Asteroid That Changed Our World
by Karen Krossing, illustrated by Julia Vasileva

A poetic look at a defining event in Earth's history

Many millions of years ago, one cosmic rock began a journey that would reshape life on our planet forever.



ISBN: 9781771475594
Ages 5 to 8; Grade: 1-3

Before Reading:

- Look at the cover. What kind of rock do you see? How big do you think it is? Where is it located? Where do you think it is going?

After Reading:

Reflection—Text-to-Self

- Pebbles from this asteroid that hit the Earth 66 million years ago can be found across our planet. Where have you found interesting rocks? What did you notice about them?
- Imagine yourself as an early human. How would your life be different than it is right now?

Reflection—Text-to-World

- The word "evolve" means to slowly grow and change over a long period of time. What if this asteroid had never hit Earth? How do you imagine life might have evolved differently?

CURRICULUM CONNECTIONS
Language Arts: Questioning
Character Education: Curiosity
Space Science: Components of a Solar System
Life Science: Evolution; Understanding Life Systems; Growth and Changes in Living Things

READING LEVELS
Fountas & Pinnell: N
Lexile® Measure: AD740L
Common Core: RI.3, W.3, SL.3, L.3
NGSS: 4-ESS1-1

LIFE SCIENCE: NAME THAT LIFE-FORM GAME

Dinosaurs, Bear Dogs, and Humans—Oh My! This book introduces many fascinating species that have inhabited Earth.

Let's see how many you can find and name.

pages 6-7

What dinosaurs, water creatures, and plants do you see?

Answers: alamosaurus, pterosaur, Tyrannosaurus rex, triceratop, plesiosaur, mosasaur, fish, ammonite, corals, algae, giant clam, magnolia, ferns, palm trees, mushrooms, and conifers.

pages 8-9

Can you find the snake with legs? The spider with a tail? The bird with teeth and claws on their wings? What else do you see?

Answers: dragonfly, beetle, caterpillar, spiders, bird (from the enantiornithine group), furry rodent-like mammal (spinolestes xenarthrosus), lizard, butterfly, lacewing larva, turtle, four-legged snake (tetrapodophis), magnolia, palaeoctopus, belemnites, ammonite, fish, eels, crab, seaweed, and corals.

pages 18-19

What life-forms can you find? What species are the dinosaur skeletons?

Answers: birds (tinamous), frog, turtle, furry beaver-like mammals, mushrooms, fern sprouts, small beetles, fish, alamosaurus skeletons, and marine animal skeletons.

pages 24-25

Can you find the bear dog and saber-toothed cat? What other life-forms can you name?

Answers: baiconodon, rabbit, rat-like mammal (gymnure), bear dog, chameleon, dogwood, pawpaws, peas, magnolia, and early humans.