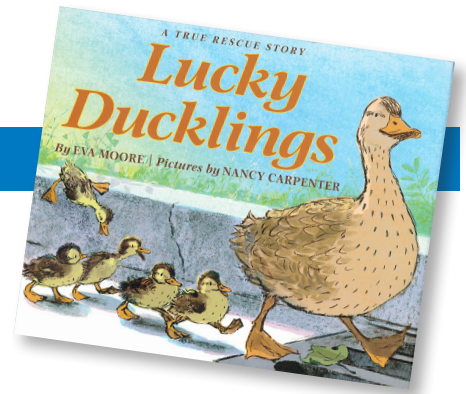


Lucky Ducklings



RIF EXTENSION ACTIVITIES FOR EDUCATORS

STEAM-THEMED: SCIENCE, TECHNOLOGY, ENGINEERING, ART, MATH

SCIENCE, MATH, TECHNOLOGY THE GREAT BACKYARD BIRD COUNT

Every year in February, the Great Backyard Bird Count is held to see how many birds have flown south for the winter and how many have not. To take part, go outside and watch birds in your area for at least 15 minutes. How many birds do you see? What kind of birds? Record your observations and enter them online at www.birdsource.org/gbbc/kids to help researchers study migration patterns.



TECHNOLOGY, MATH GOOD LUCK, DUCK!

Students will need to think outside the box in this ducky logic game. Have students sharpen their problem-solving skills by logging on to www.coolmath-games.com/0-duck/index.html.

ENGINEERING, SCIENCE, TECHNOLOGY, ART, MATH WEB "FOOT"AGE

Share the story of Buttercup the duck (www.usa-today.com/story/tech/2013/06/28/3-d-printing-duck-foot/2473703). After reading the article, let students brainstorm how they think 3D printing works. List their ideas on the board. Then watch this short video on 3D printing: www.youtube.com/watch?v=8aghzpO_UZE. Ask these questions: If you could design an object and 3D print it, what would you design? What would your design do? How would it help others? Give students time to explore, design, and create their responses.

ENGINEERING, MATH SHAPING UP

Materials: pipe cleaners, oat cereal O's

Give students pipe cleaners and oat cereal O's to make bird feeders. Have students string the cereal on the pipe cleaners and twist them into shapes. Younger students should focus on counting the cereal and making simple shapes. Older students should combine pipe cleaners to create 3D shapes. Hang finished feeders outside.

ART DESIGNER DUCKS

Materials: air-dry clay, non-toxic paint, paint brushes

Give each student a fist-sized ball of modeling clay. Have students study pictures of ducks. Let them sculpt their own ducks from the clay. Once the ducks are dry, let students paint them.

MATH DUCKS IN A ROW

Materials: math flash cards (addition, subtraction, multiplication, fraction, or percentage)

Choose cards based on the skill your students are working on in math. Give each student a card to solve. When you say "ducks in a row," students should line up from smallest to largest answers or vice versa. Time how long it takes. Redistribute the cards and have students see if they can beat their previous time. (Can also be used to line up for recess, lunch, or enhancement classes.)

