

Penguin in Peril

RIF EXTENSION ACTIVITIES FOR EDUCATORS

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

SCIENCE

LAST IN FLIGHT

Materials: pen, paper, markers or colored pencils

Penguins have wings, but they don't fly. Are penguins still birds? Research to find out! Find at least 5 *characteristics* that all birds share. Show your findings on an illustrated poster or brochure. Can you think of any other birds that don't fly? List at least 3 examples on your poster.



TECHNOLOGY, ART, SCIENCE

BIRDS OF A FEATHER?

There are many different species of birds. How do penguins compare with other birds? Spend several minutes watching how penguins act on this penguin live cam: <http://explore.org/live-cams/player/live-penguin-cam-2>. Take notes and draw sketches of what you see. How do the penguins act? What do they look like? Then, do the same thing for these live flamingos: <http://www.houstonzoo.org/meet-the-animals/flamingo-cam/>. Based on your notes, make a chart comparing penguins and flamingos.

ENGINEERING, SCIENCE, TECHNOLOGY, MATH

SOMETHING FISHY

Materials: paper, pencils, crayons or markers

The cat burglars wanted to use the penguin to catch fish for them. Design a machine that would catch lots of fish for the cats so they can leave the poor



penguin alone.

How would your machine work?

What would it use

for power? What would you

build it out of? Draw and label a picture of your machine. Don't forget to give it a name!

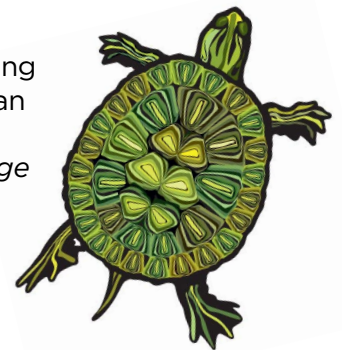


ART, SCIENCE

NOW YOU SEE ME...

Materials: white paper, pencils, crayons, markers or paint

In the book, the penguin escapes the cats by blending in with its surroundings. Can you think of any other animals that use *camouflage* to hide? Draw a picture of an animal using camouflage in its natural habitat.

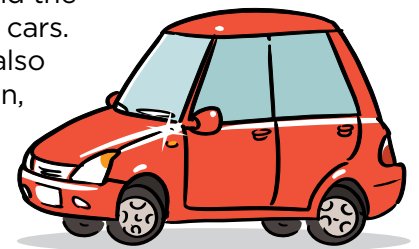


MATH, ART

COUNTING CARS

Materials: paper, pencil, colored pencils or markers

Look at the page in the book where the cats are bicycling on a street full of cars. Count how many cars you see of each color. Make a graph to show your results. Find the difference between the color with the most cars and the color with the fewest cars. (Older students can also find the mean, median, and/or mode.)



Reading Is
Fundamental