

# King for a Day

## RIF EXTENSION ACTIVITIES FOR EDUCATORS

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



### SCIENCE, TECHNOLOGY, ENGINEERING

#### LET'S GO FLY A KITE

Materials: newspaper, plastic garbage bags, bamboo skewers, tape, scissors, string, ribbon

Divide children into groups. Half the groups should make simple paper kites following these instructions: [www.dublinkitefestival.ie/build-a-kite](http://www.dublinkitefestival.ie/build-a-kite). The other half should make simple garbage bag kites: [www.instructables.com/id/A-Garbage-Bag-Kite](http://www.instructables.com/id/A-Garbage-Bag-Kite).

Have each student predict which type of kite will fly better

and explain their answer. Make a chart or graph to show the results. Wait for a moderately windy day and go fly your kites! Students should take turns flying and recording their observations. Afterward, discuss your observations and conclusions as a class. Which kite flew best?



### TECHNOLOGY, ART

#### MAP IT OUT

Materials: white or construction paper, scrap paper and materials, glue, scissors, pencil

Visit [www.google.com/maps/place/Lahore,+Pakistan](http://www.google.com/maps/place/Lahore,+Pakistan) and click on the "Photos" link on the bottom left of the screen to explore Malik's home. Do any of the pictures you see in the book look like the pictures you see online? Can you match any of the building shapes? Pick one of the pictures online and recreate it using scrap materials to make a collage, just like the beautiful illustrations in this book!

### ART, MATH

#### GETTING IN SHAPE

Materials: pattern blocks or scraps of colored paper cut into different shapes

Look at the kites in the book. How many different shapes and patterns do you see?

Use pattern blocks or pieces of paper to recreate one of the kites you see in the book. Then, get creative and make a few kite designs of your own! Do you think your kite designs would be able to fly?

### ENGINEERING, SCIENCE, TECHNOLOGY

#### THE WRIGHT STUFF

Before the Wright brothers invented the first working airplane in 1903, they built a giant kite and several unpowered gliders to help them understand how an airplane might fly. How would flying a kite help them design an airplane? What forces would affect a kite that would also affect an airplane? Write down your ideas. Then visit [www.pbs.org/wgbh/nova/space/pilot-wright-brothers-flyer.html](http://www.pbs.org/wgbh/nova/space/pilot-wright-brothers-flyer.html) or watch [www.youtube.com/watch?v=q3beVhDiyio](http://www.youtube.com/watch?v=q3beVhDiyio) for a closer look at the Wright brothers' plane. Does seeing the plane change your ideas at all? If so, how and why?

### MATH

#### BIRD BRAINS

Use the following facts to write at least 3 word problems, then trade problems with a partner and solve.

- ◆ There are 37 different kinds of falcons.
- ◆ Peregrine falcons can dive at speeds of up to 200 miles per hour.
- ◆ The American kestrel can be as small as 12 cm long and as large as 27 cm long.
- ◆ The male gyrfalcon, the largest kind of falcon, can weigh up to 3 pounds.



Reading Is Fundamental