THE ELEVATOR FAMILY



By Douglas Evans



About the Author

Douglas Evans

Douglas Evans lives in California, but he grew up in Minnesota and Ohio. He has also taught in many different places for twenty years, including Oregon, California, Helsinki and London! He loves to travel and has visited more than 100 countries! Other than writing books, he likes to play music on the guitar and piano. He has written more than 400 musical songs and compositions!

Evans has said that when he met the famous author Roald Dahl (he wrote books like <u>Matilda</u> and <u>Charlie and the Chocolate Factory</u>), he was inspired to write children's books. He most enjoys writing books about students and teachers, which is in fact what many of his books are about. He has said that his favorite book that he has written is <u>Apple Island</u>, which is about teachers.

Books by Douglas Evans:

Classroom at the End of the Hall

So What Do You Do?

Apple Island, or, The Truth About Teachers

The Elevator Family

<u>Math Rashes and Other Classroom</u> <u>Tales</u>

MVP: Magellan Voyage Project

Mouth Moths, More Classroom Tales

Find out more at www.wtmelon.com!



An illustration from one of Douglas Evans' books

COLOR YOUR OWN SUITCASE!



If you were going on vacation, what would your suitcase look like? What would be in your suitcase?

wOrD sEaRcH

The names of some of the characters are hidden in this word search!

Can you find them? The names can be hidden in any direction,

even backwards or diagonally!

С	А	W	D	G	G	М	Q	G	Υ	Ι	Н	U	В	D
0	Н	В	0	F	Е	Ν	М	Κ	Н	Н	D	٧	В	Υ
Κ	С	Q	D	L	L	Υ	С	S	Χ	Υ	А	Ν	F	М
J	А	Q	0	Κ	S	D	Е	R	А	Ν	0	В	Ν	J
М	Τ	Κ	Ι	Р	Ζ	Ν	L	٧	Κ	Т	Υ	J	D	S
W	А	J	٧	٧	Е	٧	I	U	G	F	Z	Ν	0	В
Κ	Ν	٧	Κ	0	G	Ζ	Е	W	Ι	Υ	Ν	М	U	R
L	W	0	F	S	F	А	Ν	Ζ	J	С	0	D	М	Н
Υ	Е	Ν	Т	I	Н	W	٧	L	٧	Z	Ζ	Е	0	J
Χ	S	D	Н	W	М	Н	I	I	R	L	R	Υ	R	С
W	I	Ν	0	Ν	А	Ζ	U	Р	Ν	Е	С	Q	U	А
D	Н	٧	Е	J	Ζ	Κ	D	М	Т	Z	J	J	S	Τ
Χ	Υ	Т	Ι	Υ	Χ	Т	D	L	Н	В	L	Χ	Р	Н
М	J	R	U	0	G	W	А	Ζ	F	F	Q	U	Κ	Υ
В	Н	Υ	С	R	J	W	U	G	С	Т	Н	F	С	G
CATHY LIZZY WHITNEY						GAVIN NATACHA WINONA						JOE WALTER WINSLOW		

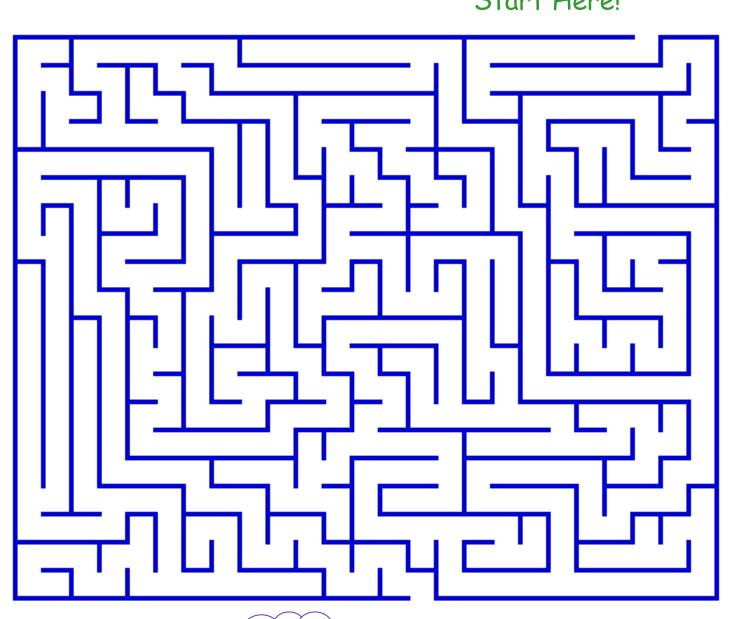




Could you please help me?

Mrs. Goldengate has lost her poodle,
Oui-Oui! Can you help her find Oui-Oui?

Start Here!



Thanks for your help!

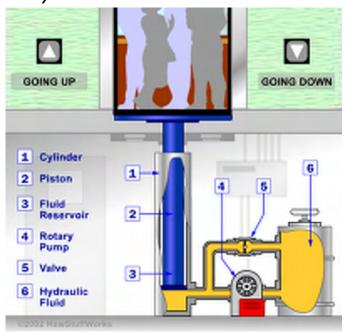
Yay! You found Oui-Oui!

how does an

ELEVATOR

Work?

A hydraulic elevator



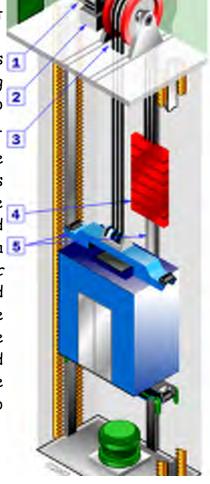
Some elevators today are called hydraulic elevators, which means that they need fluid to run! That might sound silly, but it really does make sense. A hydraulic ram, which you can see in the diagram to the left, is a piston (2) inside a cylinder (1) that makes the elevator car (where you stand!) move up and down. The cylinder is connected to a fluid-pumping system (the fluid is oil) which is made up of a tank where the oil is, a pump

(4) make the oil exit the tank, and a valve (5) which is the opening from the tank to the cylinder that the oil goes through. The oil is pressurized (kept under pressure) so that when the valve is open, the oil

is forced to go into the tank and the elevator goes down. When the valve is closed, the oil goes into the cylinder and forces the piston to go up, making the elevator go up! When the elevator gets to the right floor, the pump shuts off and the oil has to stay where it is so that the elevator stops moving.

The other type of elevator that exists is called a *roped* elevator, seen in the diagram on the right. Instead of being pushed by a piston, the car is controlled by *traction steel ropes* (which are very strong) attached to the car and looped around a *sheave* (3) which is like a big spool of thread and spins when the *control system* (1) gets a signal from someone pushing a button that the elevator should move. The sheave is controlled by an *electric motor* (2). The ropes that make the car go up and down have an attached *counterweight* (4) that balances the elevator car to make it easier for the motor to make the car move. This conserves energy! The heavier the elevator car is, the more energy it takes for it to move. The elevator car and the counterweight travel up and down on separate steel *guide rails* (5) so the elevator doesn't sway from side to side and bump into anything. They also make it a lot easier for the elevator to stop, in case there is an emergency.

123456789



A roped elevator

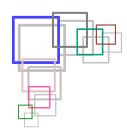
Your dream vacation!

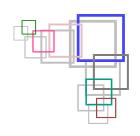
Imagine that you are going on the vacation of your dreams!

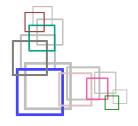
Write down what your dream vacation would be like.

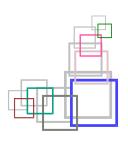
How would you get there?
Who would you take with you?
What kinds of things would you do there?

Draw a picture of your dream vacation spot!

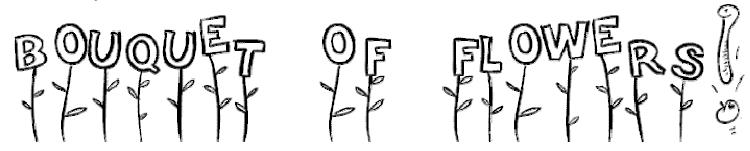








make your own



The Wilson's room, Otis, was always full of flowers that Gavin the Bellhop bought from Cindy. You can make your own flowers, and they will last a lot longer than the ones that Gavin bought!

Materials:

- Tissue paper (any color you want!) Pipe cleaners (green, or other colors)
- Scissors (use kid-safe ones, and have adult supervision!)

Instructions:

- First, use your scissors to cut the tissue paper into whatever size rectangles you want. 5 inches by 7 inches is a good medium size. You might want to have an adult or older sibling cut the tissue paper for you.
- Stack about 15 of these tissue paper pieces on top of each other. You can stack different colored pieces to make a multi-colored flower!
- Accordion-pleat (see the image in the bottom left corner for an example) the stack of tissue paper, starting with the longer side of the rectangle.
- Wind one end of the pipe cleaner around the middle of the pleated stack.
- Trim the ends of the tissue paper to make the paper look more like flower
 - petals. Trimming the ends into a point or a curve will make very pretty petals. Again, an adult or older sibling can do this for you.
 - Make as many flowers as you want! You can put them in a cup or a vase to display in a room, or tie them together with a ribbon or string and give them as a gift!

