



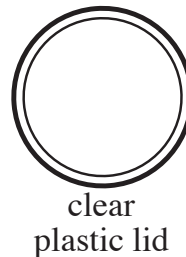
Name: _____

THE MAGIC OF SCIENCE STEMDINI THE SCIENCE OF MAGIC

This trick takes a little practice. Do it a few times until you can do it well. Then, perform it for your friends and family!

STUFF YOU'LL NEED:

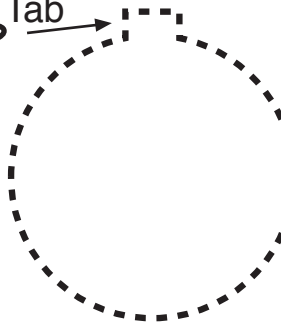
scissors

clear
plastic lidsmall
glasspitcher of
water

THE MAGIC RAIN TRICK



Tab



Prepare your props

Place the glass upside down on the plastic lid. Trace around the glass to make a circle, drawing a little tab as shown. Cut just outside the circle to make it a little bit larger than the mouth of the glass. Be sure to cut out the tab.

1. Perform the trick

Place your pitcher and glass on a table. Hide the plastic circle in the hand you won't use to pour.



2.

Pour water from the pitcher into the glass, until it begins to overflow. Say **"I can tip this glass of water over my head and keep it from pouring out."**



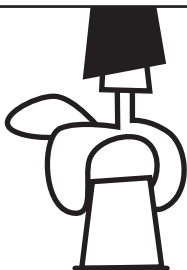
3.

Put down the pitcher and cover the mouth of the glass with the hand hiding the plastic circle. Secretly place the circle over the mouth of the glass, covering the entire top.



4.

Pick up the glass with your other hand and turn it over quickly, but gently. Slowly remove the hand holding the top of the glass. If done right, the circle will stick to the glass and the water won't spill out.



5.

Lift the glass over your head and say **"Magic tricks are hot work. I think I'll cool off."** Then gently push on the tab. The plastic circle will come off and the water will fall on you!



Standards Link: Reading Comprehension: Follow multiple-step directions with accuracy.

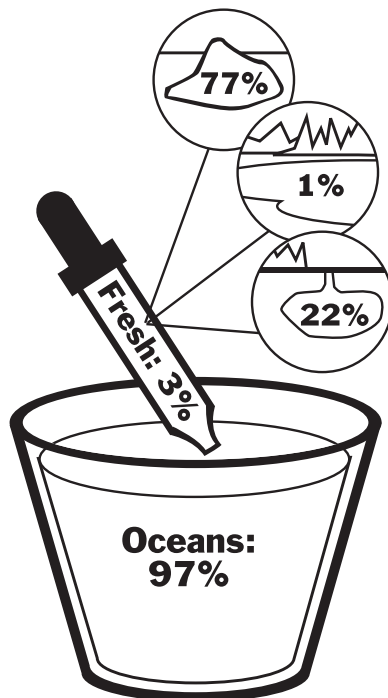
Name:

The Science Behind the Trick:

Air pressure is all around us. The plastic lid sticks to the surface of the water and is pressed by air pressure. Even when the glass is turned over, air pressure will hold the plastic lid in place.

Water Planet

97% of the world's water is in oceans. The remaining 3% is fresh water. That 3% of fresh water divides into 77% contained in icecaps and glaciers, 22% in groundwater aquifers (drinking water) and 1% in lakes and streams.



Float an Egg

Question: How can you make an egg float in a bowl of water?

Hypothesis*: _____

*Note: a hypothesis means a thoughtful guess.

GET: a large bowl
warm water
an egg
salt
spoon



DO:

1. Fill your bowl with warm water.
2. Gently place the egg in the water. What happens?

1. Remove the egg and stir at least one cup of salt into the water. Stir until you can't see any grains of salt.
2. The water will look cloudy. Place the egg in the salty water. What happens?

An Egg-splanation

Did the egg float? Adding salt to water makes it heavier. In salty water the amount of water the egg displaces weighs more than the egg and the egg floats.

Standards Link: Science/Investigation: Conduct simple experiments.

Name:

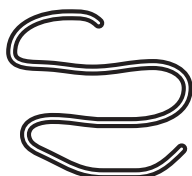
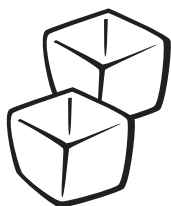
Salty Science

Most of the ocean doesn't freeze. Why? Salt water freezes at a lower temperature than fresh water.

GET: ice cubes

thread

salt



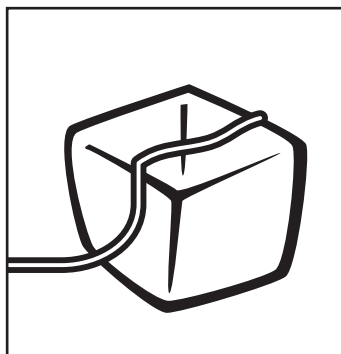
Saltiest Sea

The Dead Sea in Israel is the saltiest body of water in the world. You could float on top of the water and read *Kid Scoop*!

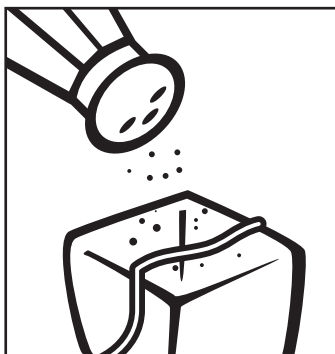


DO:

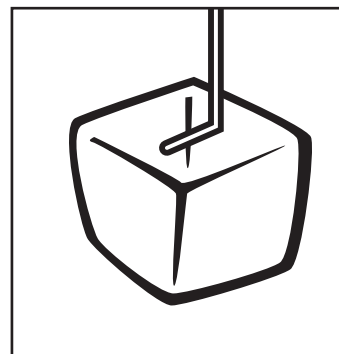
1. Soak your thread in some water then lay it on top of an ice cube.



2. Sprinkle a tiny bit of salt along the thread and wait about 30 seconds.



3. Lift the thread. Does the ice cube cling to the thread and get lifted as well?



Explanation: The salt melts the surface of the ice. The coldness of the ice then refreezes this water, trapping the thread and freezing it to the ice.

Standards Link: Science/Investigation: Conduct simple experiments.

North Pole Expedition

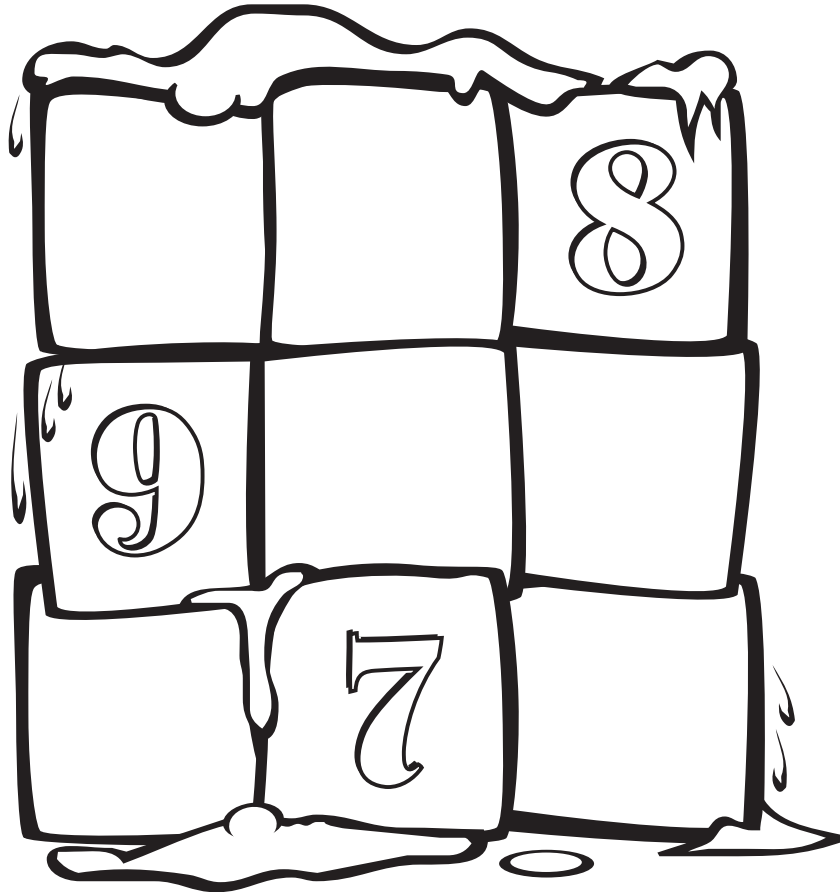
You have \$1,000 to spend on things for a trip to the North Pole. Look through today's newspaper and "buy" what you'll need. Can you spend exactly \$1,000 without going over?

Standards Link: Mathematics: Number Sense: Students estimate and solve problems using money amounts.



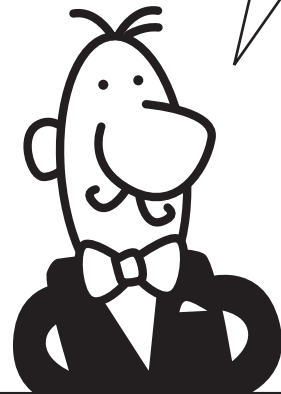
Name: _____

Puzzler



Quick! Before it melts! Solve the puzzle frozen in my ice cubes and you will have good luck!

Fill in the blank squares with numbers to make the sum of each side and each diagonal add up to 15.



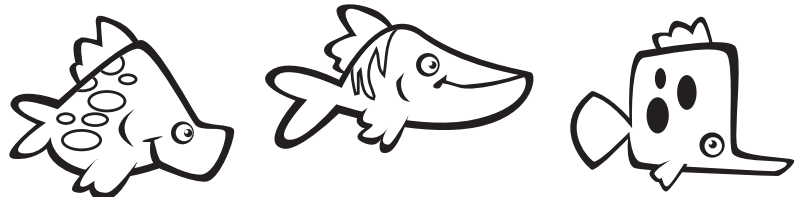
Standards Link: Mathematics: Number Sense: Adding sums to 15.

Kid Scoo-doku[™]

Complete the grid by using all the letters in the word **MAGIC** in each vertical and horizontal row. Each letter should only be used once in each row. Some spaces have been filled in for you.

M	A	G	I	C
		M		G
			G	M
G	M			
C	G		M	

Why do fish live in salt water?



ANSWER: Because pepper makes them sneeze.

[illegible]

Standards Link: Reading Comprehension: Understand and interpret quotations in expository text.



Name:

Kid Scoop Jumbo Word Search

Find the words by looking up, down, backwards, forwards, sideways and diagonally.
Then see how many of these words you can find in today's newspaper.

QUESTION
PRESSURE
PRACTICE
SCIENCE
SURFACE
MAGIC
FLOAT
WATER
TRICK
TRACE
SALT
BOWL
HIDE
HEAD
EGG

K	C	I	R	T	M	T	H	E	M
P	A	S	U	R	F	A	C	E	G
R	F	H	I	D	E	S	G	I	C
E	S	L	A	T	C	G	E	I	T
S	M	E	O	I	A	G	R	L	C
S	H	D	E	A	R	E	A	I	N
U	I	N	O	I	T	S	E	U	Q
R	C	P	R	A	C	T	I	C	E
E	T	L	W	O	B	R	I	C	K

Standards Link: Letter sequencing. Recognized identical words.
Skim and scan reading. Recall spelling patterns.