San Francisco Water Power Sewer
Services of the San Francisco Public Utilities Commission

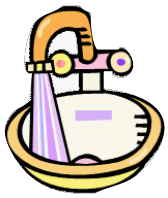
Name_____ Date_____

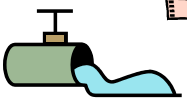
Hidden Water Wisdom

Student Activity Sheet

Follow the directions below and circle the words that remain to reveal a hidden message!

SAN DAMS FRANCISCO YAMS RAIN TAP SHOWER WATER
IS CEREAL TASTY SQUASH AND SINK CLEAN.
IT'S RESERVOIRS PASTA BETTER AQUEDUCTS THAN SNOW
PLASTIC CAKE BOTTLED DROUGHT WATER BREAD BECAUSE IT'S
THE HAIL CHOICE CARROTS THAT'S TOILET MOST GREEN!

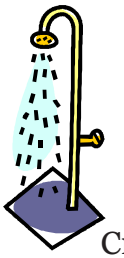


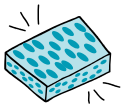


Cross out 3 things in the bathroom where we use water.
Cross out 4 food items made from grains.
Cross out 3 types of vegetables.
Cross out 3 parts of the Hetch Hetchy water system that provide water to San Francisco.
Cross out 1 word that describes what occurs when normal amounts of rain do not fall.
Cross out 3 forms of precipitation that help replenish our water supply.

Write hidden message here:

TURNING TOILET OFF CUPS AQUIFER THE SPONGE FAUCET
WHILE SPRING BRUSHING SILVERWARE YOUR RIVER TEETH
IS BOWLS A GREAT SINK BUCKET WAY TO STREAM
SAVE WATER, IT'S PLATES SO SHOWER EASY, YOU'LL NOZZLE SEE





Cross out 4 places where fresh water can naturally be found.
Cross out 3 things around the house (besides "faucet") that could have leaky plumbing.
Cross out 2 items you can use together to save water while washing your bike or car.
Cross out 4 things that you can soak in hot water before scrubbing and rinsing dirty dishes.
Cross out 1 thing you can put on a hose to control the flow of water.

Write hidden message here:

San Francisco Water Power Sewer
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Name_____ Date_____

Water-Wise Number Code

Student Activity Sheet

Write the letter in the code with the corresponding number below each line. For example, the letter matching the number 17 is Q. Print a Q on every line that has a number 17 below.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

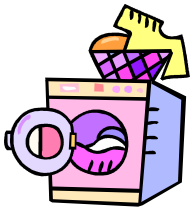
___ ___ ___ ___ ___ ___ ___ ___ ___ ___
5 22 1 16 15 18 1 20 5 19

Hint: Water lawns in the morning or evening so that less water _____ in the midday heat.

___ ___ ___ ___ ___ ___ ___ ___
7 12 1 19 19 6 21 12

Hint: When brushing your teeth, use a _____ of water instead of running the tap.

___ ___ ___ ___ ___ ___ ___ ___
20 18 1 19 8 3 1 14



Hint: Don't use the toilet as a _____; flush the toilet only when you really need to.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
23 1 19 8 9 14 7 13 1 3 8 9 14 5

Hint: Wear clothes more than once before throwing them into the _____ _____.

___ ___ ___ ___ ___ ___ ___
20 9 7 8 20 12 25

Hint: When turning off the tap, make sure that you've shut it _____.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
2 5 5 6 16 12 1 14 20 2 1 19 5 4

Hint: Eat less _____ and more _____ – _____ foods and save hundreds of gallons of water a day!

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Write the letter in the code with the corresponding number below each line. For example, the letter matching the number 17 is Q. Print a Q on every line that has a number 17 below.

A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26

___ ___ ___ ___ ___ ___ ___ ___ ___ ___
5 22 1 16 15 18 1 20 5 19

Hint: Water lawns in the morning or evening so that less water _____ in the midday heat.

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7 12 1 19 19 6 21 12

Hint: When brushing your teeth, use a _____ of water instead of running the tap.

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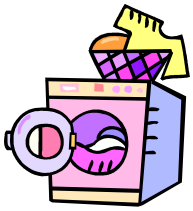

Hint: Don't use the toilet as a _____; flush the toilet only when you really need to.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
23 1 19 8 9 14 7 13 1 3 8 9 14 5

Hint: Wear clothes more than once before throwing them into the _____ _____.

___ ___ ___ ___ ___ ___ ___
20 9 7 8 20 12 25

Hint: When turning off the tap, make sure that you've shut it _____.

___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___ ___
2 5 5 6 16 12 1 14 20 2 1 19 5 4

Hint: Eat less _____ and more _____ – _____ foods and save hundreds of gallons of water a day!

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Secret Message Math

Multiplication **Student Activity Sheet**

Discover the secret message! Solve the math, and match your answers with the letters in the code. Write the letter on the line above the math problem.

Secret Code: A=500 B=391 C=672 D=850 E=900 F=247 G=195 H=156 I=345 J=723 K=495 L=800 M=990 N=360 O=720 P=960 Q=665 R=600 S=750 T=1080 U=325 V=182 W=550 X=125 Y=221 Z=950

19 x 13	300 x 2	45 x 20	25 x 30	13 x 12		275 x 2	50 x 10	45 x 24	900 x 1	50 x 12				

23 x 15	250 x 3	90 x 11	48 x 15	150 x 4	36 x 25	14 x 13	125 x 4	32 x 25	25 x 13	250 x 2	23 x 17	50 x 16	90 x 10	

72 x 15	38 x 4	100 x 5	24 x 15	15 x 13	45 x 16	80 x 10	34 x 25	40 x 20	50 x 18	120 x 9	150 x 5			

48 x 14	80 x 9	90 x 4	50 x 15	60 x 15	30 x 20	26 x 7	150 x 6	69 x 5	90 x 12	45 x 8	30 x 24	55 x 10		

30 x 25	60 x 12	36 x 30	78 x 2	300 x 3	75 x 8	25 x 36	375 x 2	80 x 12	160 x 5	75 x 12	120 x 3	180 x 6	17 x 13	

110 x 5	26 x 6	30 x 30	60 x 6	50 x 11	180 x 5	200 x 3	450 x 2	90 x 8	400 x 2	50 x 17				

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Secret Message Math

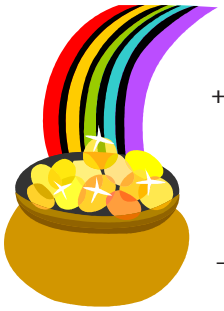
Fractions **Student Activity Sheet**

Discover the secret message! Solve the math, and match your answers with the letters in the code. Write the letter on the line above the math problem.

Secret Code: A=500 B=391 C=6 D=14 E=900 F=8 G=25 H=15 I=12 J=723 K=495 L=60 M=990 N=9 O=720 P=5 Q=665 R=600 S=750 T=1080 U=29 V=182 W=4 X=125 Y=16 Z=950

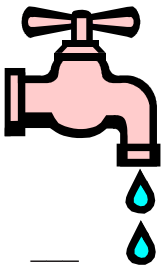
1 6/4 + 1 2/3	300 x 2	45 x 20	25 x 30	8 3/2 + 4 3/2

3 x 1 2/9	50 x 10	45 x 24	900 x 1	50 x 12



2 4/6 + 5 6/7	250 x 3	90 x 11	48 x 15	150 x 4	36 x 25	2.375 + 2.625	150 x 4	45 x 20	4 x 3/2	3 6/4 ÷ 3/4	36 x 20	17 18/3 + 4 12/6	75 x 10

72 x 15	1 1/2 x 3/4	100 x 5	2 2/2 - 4/2	3 0/4 + 7 0/4	45 x 16	42/7 ÷ 5/50	6 5/8 + 7 3/8	60/3 + 120/3	50 x 18	120 x 9	150 x 5



3 1/7 + 1 6/7	75 x 8	80 x 9	60 x 18	150 x 6	7/3 + 11/3	40 x 27	9 3/15 + 2 24/30	54 x 20	3 1/4 + 5 6/8	30 x 24	7 4/12 - 3 1/3

30 x 25	60 x 12	36 x 30	200/50 + 2 2/2	300 x 3	75 x 8	225 x 4	375 x 2	7 2/3 - 2 6/9	6 x 5 0/5	75 x 12	5.3 + 3.7	180 x 6	3 2/4 ÷ 6/12

1 2/9 ÷ 1/3	5/6 x 5 4/3	30 x 30	2/3 + 2 5/3	3.855 + 0.145	180 x 5	200 x 3	450 x 2	180 x 4	52.8 + 7.2	8 x 7/4

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Message in a Bottle

Student Activity Sheet

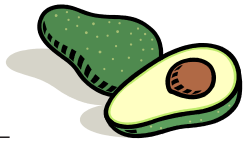
Uncork the code! Write the letter in the alphabet that comes **after** the letter shown below the line. For example, if the letter below the line is a **P**, print a **Q**.

				A					A		
N	M	D	V		X	S	N	R		U	D

	A							A					A	
V		S	D	Q	H	R	S		R	S	X			R

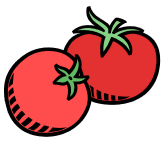
	A							A						
B		M	A	D	D		S	L	N	Q	D			

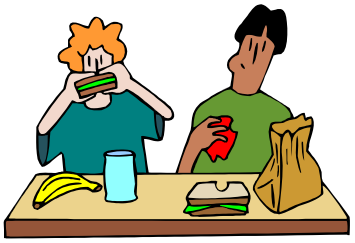
		A					A									
O	K		M	S	A		R	D	C	E	N	N	C	R		



													A			
K	H	J	D	U	D	F	F	H	D	R				M	C	

		A			
A	D		M	R	!





* Eating less beef can save hundreds of gallons of water a day. It takes 60 gallons of water to grow one serving of beans, compared to 625 gallons to produce one hamburger.

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Glossary Match-Up

Student Glossary

Use the Glossary to find the correct word for the definitions below. Then write all the circled letters in the line of circles at the bottom, to spell out the word for the final definition.

An extended period of unusually dry weather when there is little precipitation such as rain, sleet, hail or snow.

Water naturally stored beneath the earth's surface, which flows through tiny openings between pieces of soil and rock. Can also be found in fractures within hard rock.

A large area like a lake or a big tank that collects water in one place so it can be stored for later use.

Suitable for drinking.

A plumbing term. Means the amount of water flowing through pipes and faucets is reduced; usually connected to sinks, showers and toilets.

An underground layer of rock, sand or gravel that holds enough groundwater so that it can naturally provide water to streams, or be extracted by wells for human use.

A chemical or material that dirties or contaminates air, land or water.

To water land, through artificial methods like sprinklers, spraying, or drip systems, in order to grow plants such as grass, trees or crops.

The rain that falls on streets and sidewalks and goes down storm drains.

Water that has been used; all water that leaves pipes from our homes, businesses and storm drains.

To remove salt and minerals from seawater, or saltwater, in order to create potable freshwater.