

Melvil Dewey organized the knowledge we have into subject areas and gave each area a number. This is how books are organized on the shelves in the non-fiction areas of our library.

| 000 | General Works (Encyclopedias 003; Computers 004-005 |
| :--- | :--- |
| 100 | Philosophy (Psychology 150; Oriental Philosophy 180) |
| 200 | Religion (Bible 220; Christian Denominations 280) |
| 300 | Social Sciences (Law 340; Education 370; Holidays 394) |
| 400 | Language (Sign Language 419; Spanish 460; Greek 480) |
| 500 | Pure Science (Math 510; Chemistry 540; Zoology 590) |
| 600 | Applied Science (Medicine 610; Engineering 630) |
| 700 | Arts \& Recreation (Drawing 740; Music 780; Sports 790) |
| 800 | Literature (American 810; Spanish 860; Greek 880) |
| 900 | Travel (910); Biography (92); Utah History (979.2) |

Write the Dewey decimal number of each subject in the circle. Then, see if you can help our library bug through the Dewey Maze by following the numbers from 000-999 in order. The ending point will be Utah History. Have fun!



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## WHAT IS AN OPTICAL THLUSION?

Optical illusions are pictures that play tricks on your eyes and baffle your perception. Sometimes you see things that aren't there and sometimes you don't see what's right under your nose.

## Illusion 1



Illusion 3


If you look at this circle steadily, or rotate it, what do you see?

Illusion 4


## Illusion 5



Is this a normal staircase? Try walking on it upside down.

Illusion 6


Are the thin lines parallel to each other or crooked?

## VISIT THE 100'S FOR:

Philosophy ..... 100
Psychology ..... 150
Optical Illusions ..... 152.48
Emotions ..... 152.4

## Illusion 7



Holding the page flat in front of you, move it in a circle clockwise. What happens to the outside circle? What happens to the cogwheel in the middle?

## Answers:

Illusion 1: The center circles are equal. Illusion 2: All sides are the same length. Illusion 3: As your eyes tire or as you turn the circle, the overlapping images cause you to see "Moire" (plane propeller) designs in the circle. Illusion 4: Both. There are eight cubes with black tops or seven cubes with white bottoms. Illusion 5: Depending on how you focus on the letters, the staircase can run up from $A$ to $B$ or you could be standing beneath the upside-down version. To see it upside down, focus on the A. Illusion 6: Exactly parallel. Illusion 7: The circles spin to the right. Some people say the cogwheel stands still, while others say it turns to the left.


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## WHAT IS A MYTHE

A myth is a made up story or legend usually from long ago. Ancient people didn' t have T.V.'s. or computers. They entertained themselves by making up stories about the pictures in the night sky. Groups of stars, known as constellations, form patterns that looked to them like creatures or people.

Orion is one of the most famous patterns in the sky. The three stars making up the figure's belt are easy to spot. Orion was a mighty but mortal hunter. The goddess of hunting, Diana, fell in love with him. Hera, Diana's mother, didn't want them to marry. She sent all kinds of animals to kill Orion. He beat them all. Finally a tiny scorpion sneaked up, stung and killed him.


Another well known pattern is the Big Dipper. The dipper is part of a constellation called Ursa Major or the Big Bear. The dipper's handle makes up the bear's tail. Normally bears have short stubby tails. But when Zeus grabbed this bear by her tail and threw her into the sky, her tail stretched way out.


This summer look for these constellations and other "pictures in the sky."

## MYTH AND MATCE

Can you match the myth with the constellation? Fill in the blanks below.

Leo, the Lion
Leo was King of Beasts because no arrow could pierce his tough hide. But Hercules crushed Leo to death and used his skin for a suit of armor. The gods took pity on Leo and gave him a place in the stars.

## Canis Major, the Big Dog

Sirius was Orion the hunter's faithful dog. Sirius is the brightest star in the Canis Major constellation. In fact it is the brightest star in the whole sky! Orion's belt points directly to Sirius and Canis Major is at his heel.


## Gemini, the Twins

Castor and Pollux, twin sons of Zeus, were always together. When Castor was killed, Pollux asked Zeus to let him stay with his brother. Zeus placed the twins in the sky.


1. $\qquad$

2. $\qquad$

3. $\qquad$

DRAW A LINE FROM EACH MYTHOLOGICAL CREATURE TO ITS NAME.



## There's Safety in Numbers.

Be SAFE in the 300'S...

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## TRAFFIC SIGN SCAVENGER HUNT

Identify traffic signs as you drive around town. Counting signs is a great way to pass the time.


## CALL FOR HELP

Follow these steps when you need to report an emergency:

Dial "0" or "911."


Give your name, address, and the phone number you're calling from.

address

phone number

Tell what has happened.


Hang up and wait near the phone.


## WHAT TF...?

Play the "What if..." game with your parents.
Brainstorm answers to these situations:
What if you have to stay late after school, and when you leave to walk home, it's already dark?
What if you witness a bicycle accident?
What if you notice that your garage is full of paint cans, paint thinner, and old rags?
What if you visit a friend and notice a gun lying on the table?

What if you're hiking and you fall and twist your ankle?
What if you notice a stranger following you in a car?

What if you're home alone and a stranger comes to the door?


## BE A SADJTT EPDCTALIST

Know and follow these important rules:
I know my full name, address, and phone number.
I never get into a car or leave with anyone I don't know.
I never talk to or accept treats from strangers.
I always tell an adult in charge before I go outside.
I have memorized a number to call in case of emergencies.

Signed:



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## WHAT IS AN DGTPTLAN HIDEDGLYPL:

The first hieroglyphics were ideograms - a wavy line meant "water." Later generations used a rebus system (as when we indicate "belief" with a bee and a leaf). Each hieroglyph shown below has its meaning and phonetic equivalent. You can compose your own cryptic message or spell your name phonetically by linking the symbols together. These hieroglyphs have been chosen to approximate the sounds that occur in English.

## YOUR NAMI IN HIDBOCKYPHICS

Cut out the hieroglyphic symbols below and glue or tape them in the cartouche* (pronounced cartoosh') to spell your name.


cartouche

[^0]
## QAY "ETSLLO" TO THE WORLD

If you wanted to say "hello" to everybody in the world, how many people would that be? How many languages would you have to learn? You'd have to learn 2,796 languages and say "hello" to $5,720,000,000$ people!

Match the "hellos" with their language:

| Arabic | नयस्रो |
| :---: | :---: |
| Cherokee | Shalom |
| Czech | Talofa lava |
| French | Nah-mah-STAY |
| Greek | Bax'ax ka wa'alik |
| Hebrew | Dobar dan |
| Hindi | Jambo |
| Korean | Magandang tanghali po |
| Mandarin | Bore da |
| Mayan | Hola |
| Samoan | Kalimera |
| Serbo-Croation | Bonjour |
| Spanish | \$bi |
| Swahili | 你好 NiHaO |
| Tagalog | Nazdar |
| Welch | Al salaam a'alaykum |

http://www.ipl.org/youth/hello
For the answers, visit the Internet Public Library at:

## VISIT THE 400'S FOR:

Word History ..... 412
Sign Language ..... 419
Foreign Languages 420-490sHieroglyphics493.1
GAT "IDILO" IN GIGN LANGUAGE


Hint: Like saluting
From: Simple Signs by Cindy Wheeler

| 1 pkg. yeast | 4 cups flour |
| :---: | :---: |
| $11 / 2$ cups warm water | 1 egg , beaten |
| 1 tsp. salt | Coarse salt, optional |
| 1/2 tsp. sugar |  |

4 cups flour
1 egg, beaten Coarse salt, optional

Measure the warm water into a large mixing bowl. Sprinkle the yeast over the water and stir until it looks soft. Add the salt, sugar, and flour. Mix and knead the dough. Cover the bowl, set it in a warm place, and let the dough rise until doubled. Punch the dough down and divide it into small pieces. Roll each piece into a long snake and form into a letter. Grease the cookie sheet and lay the letters on them. Brush each letter with beaten egg and sprinkle with coarse salt. Bake at 425 degrees for 12-15 minutes.


## See Stars

 in the 500's...
## ASTRONOMY

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## CROSSWORD: TLHE PLANIDTS

Ten planets and a star comprise our solar system. Use the clues below to fill in the grid.

DOWN
1 Second planet
2 "Red" planet
3 Red "eye"
6 Named for sea god

ACROSS
4 Multi-ringed planet
5 Tilted and ringed
7 Outermost
8 Only planet that supports life
9 Our star
10 Hottest planet


## STAR JARS

Find a small, clean, clear plastic jar with a lid. You will also need water, light corn syrup, food coloring, and star sequins (found in fabric and craft stores). Fill the jar 3/4 full of corn syrup. Add a drop of a food coloring and water to the top of the jar. Screw on the lid and shake to blend. Open the jar, sprinkle in a few star sequins, and replace the lid, screwing it on tightly. Then shake the jar and watch the falling stars.
Don't forget to make a wish!


VISIT THE 500'S FOR:
Astronomy .................................... 520
Dinosaurs..................................... 560
Plants ............................................. 570
Animals ................................... 590


Name
Location
DO YOU SEE:
Our Moon?
Our Sun?
Big Dipper?
Little Dipper?
Polaris?
Capella?
Orion's Belt?
Betelgeuse?
Rigel?
Sirius?
Orion Nebula?
Cassiopeia?
Double Cluster?
A planet?
A meteor?
An airplane?

## ANSWERS:





## Find a Friend in the 600's... Pick a Pet

Do you....
Give your pet proper food and fresh water?
Give your pet a safe space in which to live?
Keep your pet's space clean?
Do whatever is necessary to keep your pet healthy?
CONNDCT THIT DOTS:
8


| $T$ | $T$ | $I$ | $M$ | $R$ | $E$ | $K$ | $K$ | $L$ | $A$ | $S$ | $S$ | $I$ | $E$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $W$ | $X$ | $P$ | $W$ | $Q$ | $A$ | $T$ | $A$ | $B$ | $R$ | $Z$ | $U$ | $F$ | $O$ |
| $E$ | $V$ | $M$ | $A$ | $X$ | $B$ | $C$ | $F$ | $F$ | $L$ | $P$ | $C$ | $R$ | $M$ |
| $E$ | $E$ | $K$ | $A$ | $N$ | $S$ | $B$ | $V$ | $T$ | $U$ | $A$ | $Z$ | $O$ | $C$ |
| $D$ | $G$ | $H$ | $M$ | $A$ | $J$ | $G$ | $J$ | $U$ | 1 | $D$ | $Z$ | $G$ | $P$ |
| $Y$ | $D$ | $U$ | $R$ | $K$ | $F$ | $N$ | $L$ | $R$ | $E$ | $D$ | $W$ | $E$ | $V$ |
| $Z$ | $B$ | $X$ | $E$ | $C$ | $D$ | $I$ | $S$ | $T$ | $R$ | $I$ | $Q$ | $U$ | $F$ |
| $G$ | $A$ | $N$ | $T$ | $C$ | $A$ | $P$ | $W$ | $L$ | $Y$ | $N$ | $M$ | $T$ | $L$ |
| $F$ | $R$ | $A$ | $S$ | $N$ | $K$ | $T$ | $E$ | $E$ | $D$ | $G$ | $I$ | $T$ | $O$ |
| $P$ | $E$ | $T$ | $E$ | $R$ | $R$ | $A$ | $B$ | $B$ | $I$ | $T$ | $H$ | $B$ | $P$ |
| $E$ | $T$ | $T$ | $V$ | $I$ | $L$ | $I$ | $E$ | $E$ | $Y$ | $O$ | $R$ | $E$ | $S$ |
| $N$ | $D$ | $G$ | $L$ | $A$ | $R$ | $O$ | $X$ | $A$ | $N$ | $N$ | $N$ | $R$ | $Y$ |
| $U$ | $O$ | $L$ | $Y$ | $L$ | $E$ | $T$ | $H$ | $R$ | $I$ | $B$ | $S$ | $Y$ | $A$ |
| $D$ | $N$ | $N$ | $S$ | $O$ | $C$ | $K$ | $S$ | $S$ | $W$ | $I$ | $M$ | $M$ | $Y$ |

## PDT WORD SDARCR

Find and circle these words in the puzzle above.

| ANT | FLOPSY | PADDINGTON | SOCKS |
| :--- | :--- | :--- | :--- |
| BLAZE | FROG | PETER RABBIT | SWIMMY |
| CAT | KERMIT | PING | SYLVESTER |
| DOG | LASSIE | RASCAL | TURTLE |
| EEYORE | LYLE | RIBYY | TWEEDY |
|  | MAX | SNAKE |  |

## CAT TODOE



## THUMBPRINT PDTS

Press your thumb on an ink pad. Press it on a piece of paper to make a print. Add a face, ears, tail to make your own special pet.


VISIT THE 600'S FOR:
Mororcycles, Cars, Trucks, and Planes........ 629
Gardening. 635
Cooking. .641


FIND THE PDR: Color all triangles BLUE Color all rectangles YELLOW

Color all squares ORANGE Color all circles GREEN

## TRALL MEX

Take this energy-packed treat on your next big hike!

1 cup peanuts or mixed nuts
1 cup raisins
1 cup sunflower seeds
1 cup M\&M candies
Mix all ingredients together.
Store in an air-tight container.


## BIEING WORD SDARCR

Find the following words located in this word search about different hiking steps. Look all directions and circle the words.

| EXCURSION | TREK | TRAMP |
| :--- | :--- | :--- |
| SAUNTER | TRED | ROAM |
| ROAM | JAUNT | HIKE |
| ROVE | GAD | PROWL |
| WANDER | PLOD |  |


| $K$ | $J$ | $I$ | $R$ | $E$ | $D$ | $N$ | $A$ | $W$ | $H$ | $G$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $F$ | $E$ | $D$ | $C$ | $B$ | $L$ | $A$ | $G$ | $A$ | $D$ | $Z$ |
| $J$ | $A$ | $U$ | $N$ | $T$ | $Y$ | $B$ | $X$ | $W$ | $V$ | $U$ |
| $T$ | $S$ | $R$ | $O$ | $Q$ | $P$ | $O$ | $M$ | $N$ | $M$ | $L$ |
| $I$ | $K$ | $J$ | $I$ | $I$ | $H$ | $G$ | $F$ | $A$ | $E$ | $W$ |
| $D$ | $C$ | $B$ | $S$ | $A$ | $U$ | $N$ | $T$ | $E$ | $R$ | $O$ |
| $A$ | $K$ | $E$ | $R$ | $T$ | $Z$ | $Y$ | $E$ | $V$ | $O$ | $R$ |
| $X$ | $W$ | $V$ | $U$ | $T$ | $R$ | $E$ | $D$ | $D$ | $A$ | $P$ |
| $U$ | $T$ | $S$ | $C$ | $R$ | $Q$ | $A$ | $P$ | $O$ | $M$ | $O$ |
| $N$ | $M$ | $I$ | $X$ | $K$ | $J$ | $I$ | $M$ | $L$ | $H$ | $G$ |
| $F$ | $E$ | $D$ | $E$ | $K$ | $I$ | $H$ | $C$ | $P$ | $B$ | $A$ |

## VISIT THE 700 'S FOR:

Architecture ..... 720
Drawing ..... 740
Music ..... 780
Sports ..... 796
SPORIS RIDDIES

WHAT CONTAINS MORE FEET IN THE WINTER THAN IN THE SUMMER? An ice skating rink.
WHY DID THE LONG-DISTANCE RUNNER GO TO THE VETERINARIAN?
Because his calves hurt.
WHY IS TENNIS A NOISY GAME? Because each player raises a racket.
WHY WOULD A SPIDER MAKE A GOOD OUTFIELDER? Because he always catches flies.
WHEN DOES A BASEBALL PLAYER WEAR ARMOR? During a knight game. WHY IS A BASEBALL STADIUM ALWAYS COOL? Because it has a fan in every seat.
WHAT MONSTER GOES TO BASE-
 BALL GAMES? A double-header.
WHY DOES A BASEBALL PLAYER NEED A LOT OF GAS? It's a long drive to center field.
WHY COULDN'T THE BICYCLE STAND UP AFTER THE RACE? It was two-tired.
WHAT DO GYMNASTS AND BANANAS HAVE IN COMMON? They both can do splits.
DID ANYONE LAUGH WHEN YOU FELL ON THE ICE?
No, but the ice made some awful cracks.

WHAT CAN YOU SERVE BUT CANNOT EAT?
A tennis ball.


[^1]

## Score with the 700's...

## SPORTS

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## SPORTS WORD SCRAMBLE

Unscramble the following words. All words relate to sports.

1. LLSEABBA
2. OLBTAOLF
3. RCECSO
4. SBLAKTLBAE
5. NYSMGTCASI
6. EIC COKEHY
7. ECI GSNKATI
8. MGSIWMNI
9. NSTENI
10. KTCRA
11. LLYBAELLVO
12. DWROL RSIESE $\qquad$
13. RLSWUBOPED $\qquad$

## TCSET LINE

The game is starting, so buy your ticket and find your seat! Hurry!


## SPOITS DQUIPMENT MATCE

Match the name of the sport with the proper piece of equipment. Draw a line to connect them.

## HOPSCOTCH

HURDLE
BADMINTON
ROPE
JUMP ROPE
TACKLE
BOXING
RACQUETBALL
HOCKEY
CANOEING
DIVING
FISHING
TRACK
PUCK
AIRTANK
CHALK
BIRDIE

## GLOVES

## RACQUET



## Find miles of smiles in the 800's... HUMOR

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## MAGAZINE CUT-UPS

## Materials:

Glue or paste, several old magazines, a piece of construction paper with an oval shape drawn in the center.

## Instructions:

Search through the old magazines for pictures of faces. Cut out as many eyes, noses, mouths, ears, heads of hair, etc. as you can find. Separate the features into piles.
Choose a set of facial features for your "face." Arrange them on the oval to make an interesting, funny or ridiculous face. Glue in place. Share your pictures with friends.


## KNOGEESNOCES

Knock-Knock.
Who's there?
Rabbit.
Rabbit who?


Rabbit up neatly. It's a present.

Knock-Knock.
Who's there?
Needle.
Needle who?
Needle little time to make up my mind.


Knock-Knock.
Who's there?
Handsome.
Handsome who?
Handsome candy to me.

Knock-Knock.
Who's there?
Mickey.
Mickey who?
I tried to open the door, but mickey wouldn't work.

## RHB TICKLERS

What goes ffur ffur?
A dog running backwards!
Why did the gum cross the road?
Because it was stuck to the chicken's foot

What goes ABCDEFGHIJKLMNOPQRSTUVWXYZ slurp? Someone eating alphabet soup.

What does noisy hair sound like?
Bangs.
Why did the jelly bean go to school? Because he wanted to be a smarty.

What did the fish get in the mail?
A post cod.

## FINGER PUPPETS AND FINGERPLAX

Color and cut out the clown faces. Cut out five rings using the Ring Pattern. Paste clown faces on rings. Put one on each finger, starting with \#1 on the thumb, \#2 on the pointer finger, etc. Then, say the rhyme while animating the corresponding finger puppet.

Ring Pattern: 3 " $\mathrm{X} 1 / 2$ " cut out five.


Little Clowns
This little clown is fat and gay.
This little clown does tricks all day. This little clown is tall and strong. This little clown sings a funny song. This little clown is wee and small. But he can do anything at all.


## SQUIGGLE ART

Directions: Create pictures from this wiggly squiggle. On a piece of paper, draw your own squiggles and create away!



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## EGG CARTON TOTEM POLE

Materials:
Cardboard egg carton
Tempera paint
Scissors
Glue


Cut the lid off the carton. Cut the egg cup section in half lengthwise and trim the rough edges away. Cut fins for salmon and wings for an eagle from the flat section of the carton.

Glue together the 2 egg cup sections, back to back, with the wing slipped in between. Paint different faces and symbols.

Slip a wing piece between the 2 carton sections and glue them together.


Ingredients:
2 cups flour
2 tsp. baking powder $1 / 2$ tsp. salt
1 tbsp. oil
3/4 cup water
Cooking oil

## Utensils:

Bowl
Rolling Pin (optional)
Frying pan
Paper Towels
Makes 8-10 pieces

VISIT THE 900 'S FOR:
Travel ............................................. 910
Native Americans ......................... 970
Utah History ................................ 979

Mix the dry ingredients together in a bowl. Add the oil and water. Dust your hands with flour to keep them from getting sticky. Knead the dough until it's stretchy, but not sticky. Pull off a clump the size of a plum and roll it into a ball with your hands.

Pat the dough ball between your hands until it is flat. Then begin gently pulling the dough to stretch it out until it is shaped like a thin, flat pancake. This takes a bit of practice. If you can't get yours stretched, lay it on a surface dusted with four and roll it flat with a rolling pin.

Punch a hole through the center with your thumb. This hole will help the bread cook evenly.
Ask an adult to fry the bread in a few inches of hot cooking oil. When one side turns a light brown color, turn it over with two forks and cook the other side.


Flatten the dough ball and punch a hole in the center with your thumb.


This is a popular Native American food today. It is made and sold throughout the country. You can cover fry bread with powdered sugar, honey, hot chili, or salsa. It is a traditional food of the Navajo people, but many other tribes enjoy it too. So will you!


## STICE GAME

## You will need:

3 flat sticks (like popsicle sticks)
Colored markers or crayons
Make two snake sticks red on one side like this:


Snake
Make one man stick blue on one side, like this:


How to play and score:
Hold all three sticks in hands and toss into the air.
If all the plain sides fall face up, score 4 points. If all marked sides land face up, score 4 points. Two snakes and one plain up, score 6 points. Two plain and one snake up, score 6 points. Two plain and one man, score 6 points. One plain, one snake, and one man up, score 0 points.

Leave the back sides of the sticks plain.



[^0]:    * In order to set their name apart from a series of hieroglyphs, ancient Egyptians framed the name in a cartouche.

[^1]:    ANSWERS: SCRAMBLE: 1. Baseball 2. Football 3. Soccer 4. Basketball 5. Gymnastics 6. Ice Hockey 7. Ice Skating 8. Swimming 9. Tennis 10. Track 11. Volleyball 12. World Series 13. Superbowl. MATCHING: Hopscotch-Chalk, Badminton-Birdie, Jump Rope-Rope, Boxing-Gloves, Racquetball-Racquet, Hockey-Puck, Canoeing-Paddle, Diving-Airtank, Fishing-Tackle, Track-Hurdle.

