Worksheets for Activities

Relay Race Clues Worksheet

Take 1 foot (12 inch) steps

Players take turns standing fingertip to fingertip. Player A begins by spreading their arms wide, when player B will then spread their arms out (player A

spreads their arms, player B then spreads their arms at the fingertips of player A, and then player A comes back around spreading their fingertips at player B's arms)

Move **one footstep** at a time (walk toe to toe, so at each step your toes touch your heel of the foot in front)

Take 1 yard leaps

Take as large of **a footstep** as your can, pivoting each time to move (step with your left in front, pivot so your next step puts your right foot in front)

Travel 10 yards (each way) however you want

Rube Goldberg Invention Inspiration Worksheet

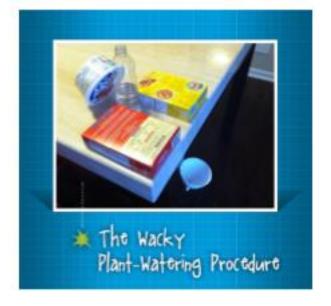
 Drop a marble down a paper towel tube so that it knocks over a chain of cereal boxes and batteries, too.



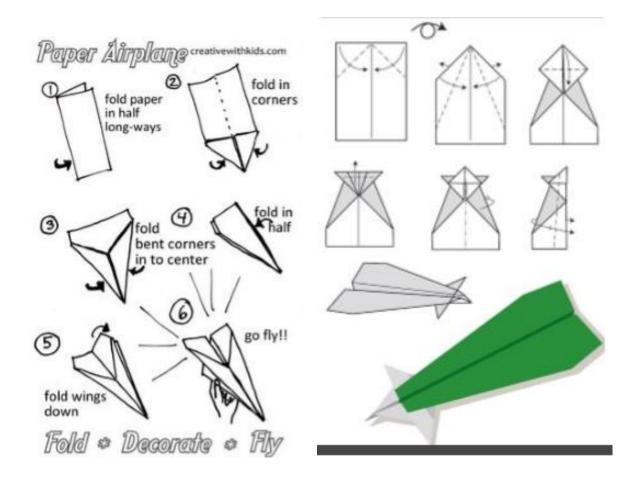


Set up a pulley system using a piece of string, two plastic cups, a milk jug filled with water, and a weight such as a battery.

 Set a half-full water bottle near the edge of the table so that it pours into a funnel when the water bottle is knocked over.
 Place a plant underneath the funnel to create a watering mechanism.



Paper Plane Ideas Worksheet



Toothpick Challenge Worksheet Background on Bridges:

Bridges are structures built to get from point A to point B when the land in between is inaccessible. The earliest bridges were simply logs laid across a stream or stones creating a path across a river, and grew to be more advanced by weaving together combinations of sticks, logs, branches, weeds and other fibers to form ropes capable of holding together bridge materials. These simple ideas were the foundations of the beam designs used in modern culture. Bridges today are made of wood, concrete, and/or steel and have many different structures.

Types of Bridges:

- Beam Bridge: The simplest design, a horizontal beam spanning between two regions; it can either be simply supported (beam across a single span) or continuous (beams across 2 or more spans).
- Truss: Structure of connected elements forming a triangle. Truss bridges are structurally stable because the forces are distributed throughout the triangle.
- Cantilever: Horizontal beam supported only on one end. Most cantilever bridges have 2 cantilever beams coming from opposite directions and connected by a suspended span in the middle.
- Arch: Horizontal beam with structures on both end where the load is distributed.
- Suspension Bridge: Bridge suspended from cables that are attached to large towers that are implanted deep into the floor of a lake or river.

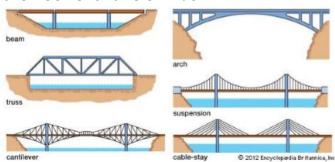
Written by Anjali Mulchandani http://beam.ucla.edu/sites/default/files/do cs/Bridge_Building.pdf https://www.pinterest.com/pin/287456388 690268639/_74 http://10mosttoday.com/10-most-famousbridges-in-the-world/ Golden Gate Bridge in San Francisco, California

Forth Bridge in Edinburgh City, Scotland



Sydney Harbour Bridge in Sydney, Australia





Cipher Disks Worksheet

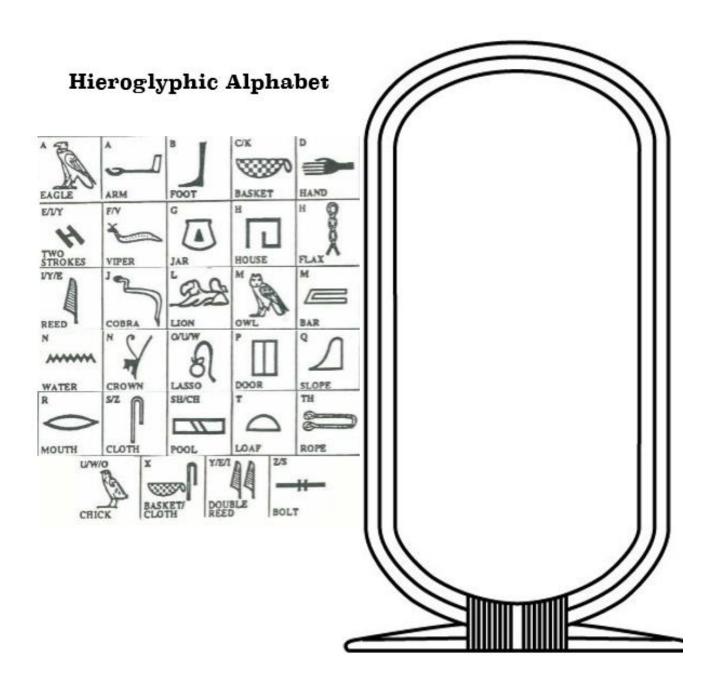


Sign Language Worksheet

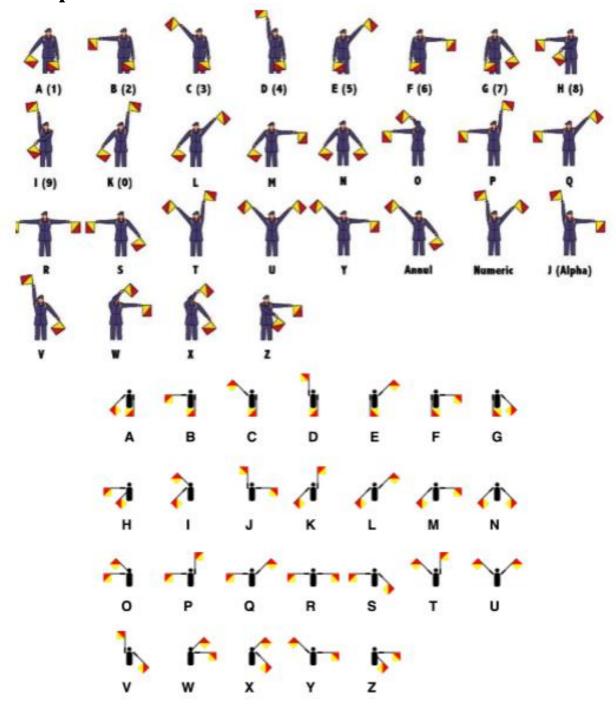


Hieroglyphics Worksheet

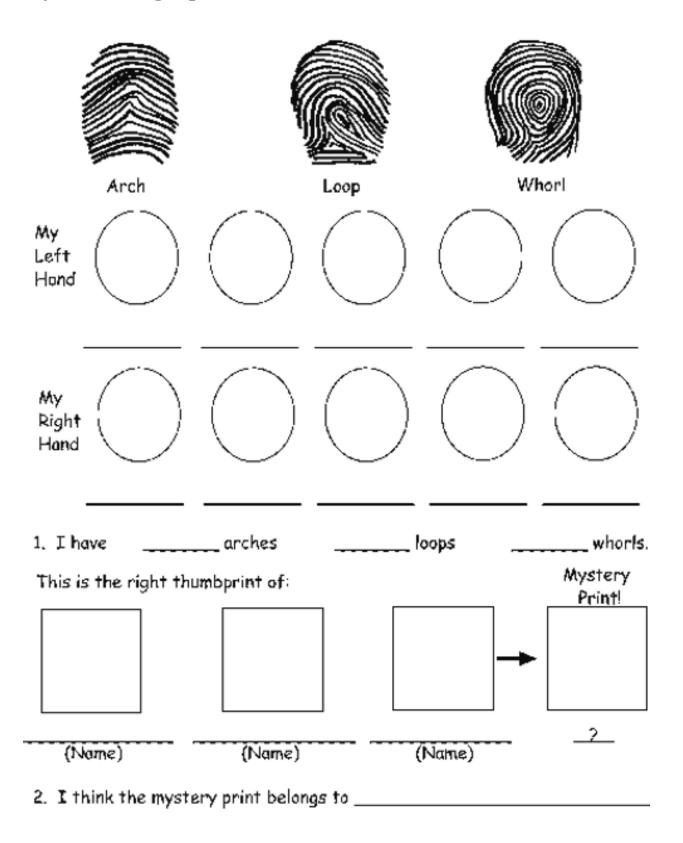
Cartouche Template



Semaphores Worksheet



My Own Fingerprints Worksheet



Rock! Sword! Firecracker! Worksheet

INT. rec room. Day.

CAST OF CHARACTERS

MASTER: Master of the game of Rock, Sword, Firecracker

MEL and KELLY: Rock, Scissors, Paper Players.

OPTIONAL EXTRAS: If you have more actors, you can divide up Mel and Kelly's lines and have actors become the characters in the master's story.

SCENE 1

Group of friends playing rock scissors paper at a local tournament. They all say:

ALL

Rock, scissors, paper!

They all do one of the above. One person gets rock and the rest get scissors and he/she pounds all their scissors. They all laugh and start another round. One person gets scissors and the rest paper and he/she cuts all their papers dramatically. There is music and a person enters. The players don't notice at first but the master shouts:

MASTER

Stop!

They all freeze.

KELLY

Who are you?

MASTER

I am the master of the Rock!

Master holds out a fist. Players all look at each other and then laugh.

MEL

Well, I've got paper.

Mel puts a flat hand over the Master's fist. Players laugh and then Master grabs Mel's hand and throw Mel on the table and sticks a finger to Mel's throat.

MASTER

And I have sword.

KELLY

There's no sword in Rock, Paper, Scissors.

MASTER

That is where you are mistaken.

Master helps Mel up.

MASTER (CONT.)

I am here to tell you the story of... (dramatic pause) ROCK! (holds up a fist) SWORD! (holds up index finger) FIRECRACKER! (holds up thumb).

Players all look at each other confused.

MEL

I thought it was rock, scissors, paper.

MASTER

You are wrong! The ancient game has been dishonored by scissors and paper.

It is a mockery of the true art of the challenge. Shall I tell you the story?

KELLY

Sure.

MASTER

If you wish to hear the story, you must say, "Yes, Master."

They all look at each other, some shrug, some make funny face but they all nod in agreement.

ALL

Yes, master.

MASTER

Say... "Pretty please."

They give each other looks and then say.

ALL

Pretty please.

MASTER

Fine. I will tell you the story.

The master can pull out a scroll or book to help with the story. This next part is flexible for staging.

The master can act out his story, more actors can come in and act out the story or the players can act out the story.

MASTER (CONT.)

It all began with the rock.

KELLY

You mean like the wrestler?

MASTER

No, the rock was a big fat lazy slob. But he was unmovable. He was a champion sumo wrestler because no one could move him. He won every match. And then he sent a challenge out to all warriors that no one could defeat him. So samurai and ninja from all over Asia came to fight him, but even a sword could not pierce his rock-like skin. But then a magician from a distant land came with a mighty weapon. A firecracker! No one had seen such a huge firecracker

before. The magician faced off against the Rock. He lit the fuse and placed it at the Rock's feet. The Rock did not care. He did not think anything could defeat him. Suddenly, there was a huge explosion. They were screams and cries of pain. And when the smoke cleared, the Rock had fallen. Everyone stood quietly and couldn't believe their eyes. A few began to cry. The magician's laugh broke the silence and he pulled another, even bigger firecracker from his robes. The magician yelled, "I shall rid this land of the Rock forever!" He placed the firecracker next to the Rock and lit it. But then a young one, who was a big fan and collected all the Rock memorabilia, sprang in to action. He snatched up a sword and "swish", cut the fuse, saving the rock from destruction.

The master bows to end his story and the players clap and cheer.

MEL

Amazing.

KELLY

Great story!

MASTER

So I ask that you no longer dishonor the game with scissors and paper.

MEL

Yes, Master!

KELLY

We will. Master.

Master bows and then leaves.

MEL

Ready?

ALL

Rock, sword, firecracker!

All except one do firecracker and one does sword and dramatically cuts their fuses with karate sounds.

KELLY

That is more fun.

ALL

Rock, sword, firecracker!

All except on do rock and one does dynamite and blows them up.

END OF PLAY

Night at the Library Mad Script! Worksheet

Fill in the following before passing out the play. Do NOT read the play first, or it will spoil the activity!

1)	a sound
2)	a state
3)	name of a local library
3)	a kind of weather
4)	a title of a book
5)	name of a villain
6)	the names of two women
7)	the name of a detective (not Sherlock Holmes)
8)	a popular character from a best seller.
9)	a terrible evil villain from a book
10)	a certain time at night or in the early morning
11)	a number of minutes
12)	something bad that can happen to someone

Mad Scripts Play: A Night at the Library Worksheet

MAD SCRIPT NIGHT AT THE LIBRARY FROM FREEDRAMA.NET

A librarian is at a desk checking in books. A narrator appears and speaks in a dramatic/scary movie type of voice.

NARRATOR

A librarian is working late at night. She hears a noise. She looks but hears nothing more.

Librarian looks around, sees nothing and then goes back to her books.

NARRATOR

Suddenly... she hears something again...

A wicked witch makes a cackling laughing sound off in the darkness.

LIBRARIAN

IDIUIIIII	
Vhat was that? It sounds like a	
)	
girl in a blue and white dress with a basket and small black dog runs ı	ıp to
ne librarian.	
OROTHY	
have a feeling we're not in	
) anymore.	
IBRARIAN	
ou're in the	
)Library. How did you get in here?	
OROTHY	
don't know one minute I was at home and then there was this terribl	e
torm and then	
) and suddenly I was here.	
IBRARIAN	
m that's quite a story	
IOLMES	
ndeed it is.	
herlock Holmes appears.	

LIBRARIAN

Was there a costume party tonight that no one told me about?

HOLMES

This is no party. There is a mystery to be solved here.

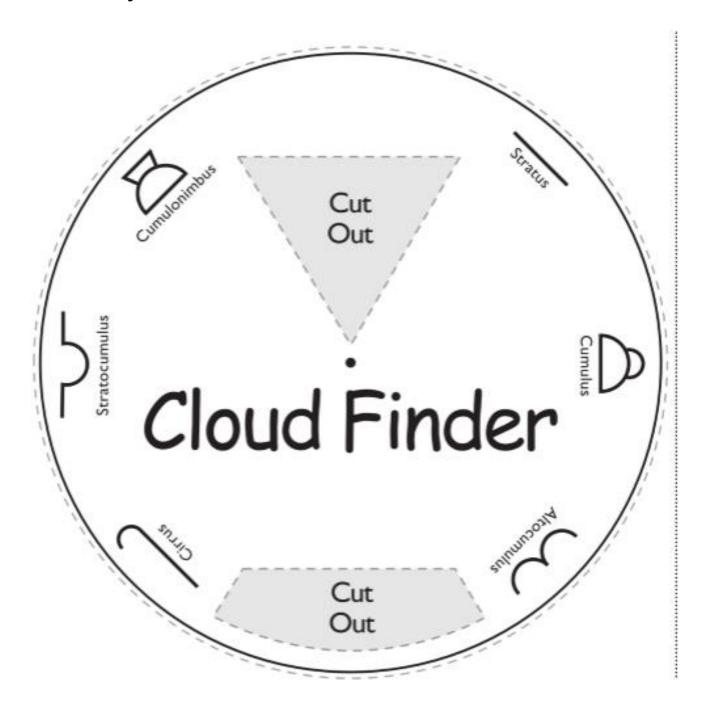
LIBRARIAN

That's too bad. I have this great costume I've wanted to wear from my favorite
book
5)
5) A Southern Bell from Civil War times enters the scene.
SCARLETT
Oh fiddle dee dee. Where can I be?
LIBRARIAN
You're in the library.
SCARLETT
Oh great balls of fire! I'm completely lost.
HOLMES
We all appear lost. Or the victims of my archenemy
6)
DOROTHY
Or is it a dream?
A person in Shakespearean costume walks in.
HAMLET
"To die, to sleep; To sleep, perchance to dream."
SCARLETT
Is this a stage production of some sort? Or are we dead? There was a war
going on back home I remember now. Never mind, I won't think about it
today maybe tomorrow.
HAMLET
"For in that sleep of death what dreams may come"
HOLMES
Sir? Are you an actor?
HAMLET
The plays the thing. But this is more than a stage. Have I gone mad after all? Or
is there some method to this madness as Polonius says.
HOLMES
Sir? Are you Hamlet?
HOLMES
Prince of Denmark. And you are?
HOLMES
Sherlock Holmes.
LIBRARIAN
And we have
7)over here.
HOLMES

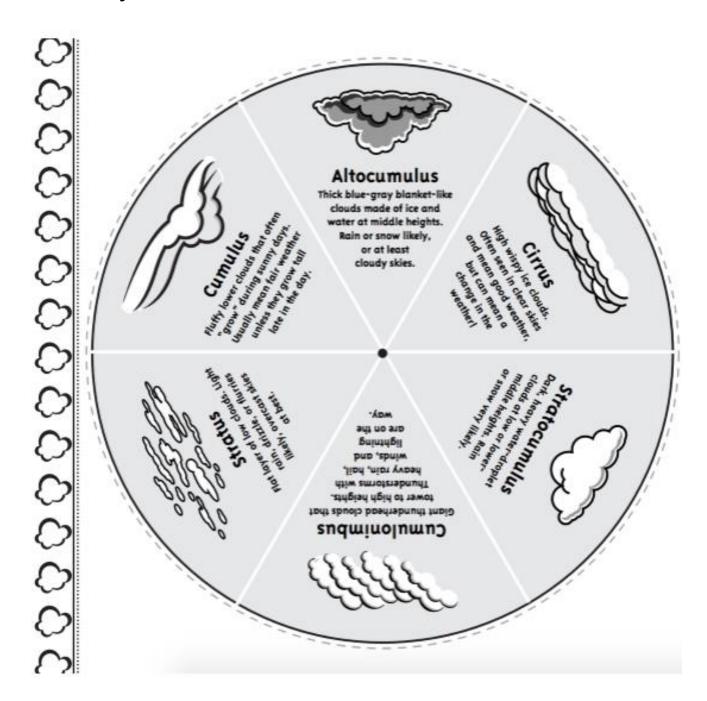
You know all these people?	
LIBRARIAN	
Who doesn't?	
A Spanish man in armor enters.	
DON QUIXOTE	
"All will come out in the washing."	
HOLMES	
And who are you, sir?	
DON QUIXOTE	
Sir Don Quixote.	
HOLMES	
Hamlet and Don Quixote. Of course. Elementary!	
SCARLETT COLUMN 1 COL	
Please don't say we're all dead. Oh, Mother of God, I'm too young to die! HAMLET	
Ah! The undiscovered country!	
DON QUIXOTE	
"Until death all is life where there's life there's hope."	
LIBRARIAN	
Look it didn't take Sherlock Holmes or	
8)to figure out what is going on. The characters from	n
the books in the library are coming to life. HOLMES	
Perhaps it has something to do with this glowing book over here.	
The librarian gets a book from a display.	
LIBRARIAN	
It's a first edition copy of the Children's Book "Night at the Museum" this is the copy of the book that director Christopher Columbus bought for his child	
that inspired the movie.	
DOROTHY	
It appears to be magic!	
HAMLET	
There are more things in heaven and earth than are dreamt of in your	
philosophy.	
LIBRARIAN	
There are more characters appearing. Now I see	
9)in the best seller section! We have to stop this	
before we end up with someone like	
10)	

SCARLETT
Maybe we should rip up the book or something.
LIBRARIAN
Put one little rip in that book missy and you'll be in big trouble with the
Friends of the Library!
SCARLETT
Oh Fiddle Dee Dee.
HOLMES
From reading these pages it appears that all we have to do is wait until the
clock strikes
11)
LIBRARIAN
That's only
12)minutes away!
HOLMES
Then we must all get back to our books.
All the characters start to exit.
LIBRARIAN
It was nice meeting you all.
Hamlet takes her hand and kisses it.
HAMLET
Good-night, sweet lady, good-night.
Librarian smiles and waves good-bye. Then she frowns.
LIBRARY
Wait, didn't Ophelia say that before she
13?
END OF SCRIPT

Cloud Key Front Worksheet



Cloud Key Back Worksheet



NATURE SCAVENGER HUNT

SEE HOW MANY ITEMS YOU CAN FIND ON THE LIST. LOOK HIGH AND LOW SO NOTHING IS MISSED!

CAN YOU FIND ME?

- Rock
- Leaf
- Pine Cone
- ☐ Wild Flower
- Bark
- Piece of Litter
- Stick
- 3 Leaf Clover
- Green Grass
- Feather
- Berry

TOUCH

- something Soft
- something Smooth
- something Rough

SHAPES

- something Circle
 - something Square
 - something Triangle

COLORS

- something Green
- something Brown
 - something Red

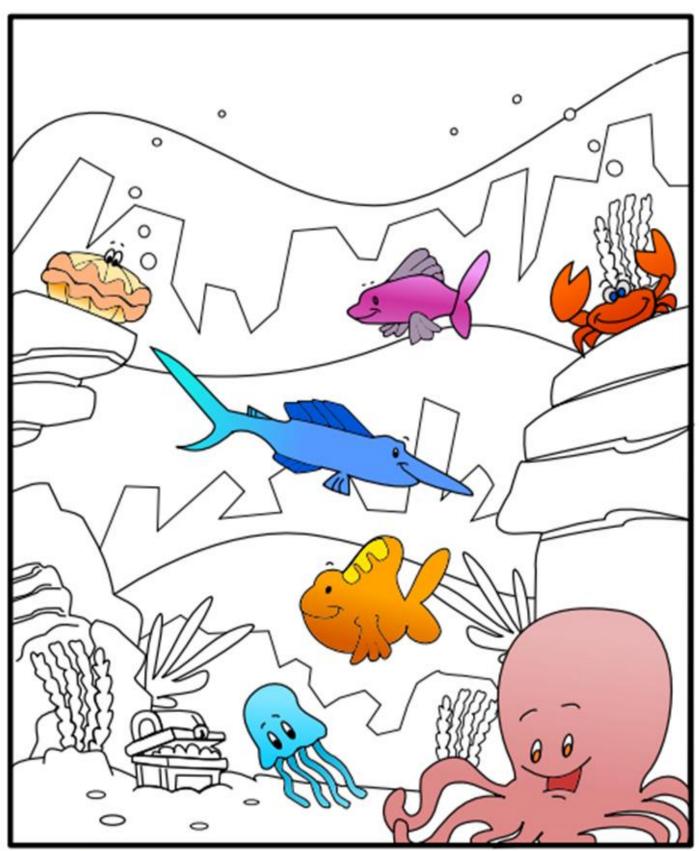
TOTAL POINTS

Acid or Base? Worksheet

Name of Liquid	Red Litmus Reaction				Blue Litmus Reaction			
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	
	Acidic	Basic	Neutral		Acidic	Basic	Neutral	

Bubble Masters! Worksheets





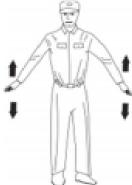
Hula Hoop Times Tables Worksheet

х	0	1	2	3	4	5	6	7	8	9	10
0	0	0	0	0	0	0	0	0	0	0	0
1	0	1	2	3	4	5	6	7	8	9	10
2	0	2	4	6	8	10	12	14	16	18	20
3	0	3	6	9	12	15	18	21	24	27	30
4	0	4	8	12	16	20	24	28	32	36	40
5	0	5	10	15	20	25	30	35	40	45	50
6	0	6	12	18	24	30	36	42	48	54	60
7	0	7	14	21	28	35	42	49	56	63	70
8	0	8	16	24	32	40	48	56	64	72	80
9	0	9	18	27	36	45	54	63	72	81	90
10	0	10	20	30	40	50	60	70	80	90	100



Move straight ahead: Bend arms at elbows and move wands up and down from waist to

head.



from waist to knee.

Slow down: Move extended arms downwards, moving wands up and down

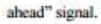


Turn right: With left arm and wand extended, right hand makes a "come ahead"

signal.

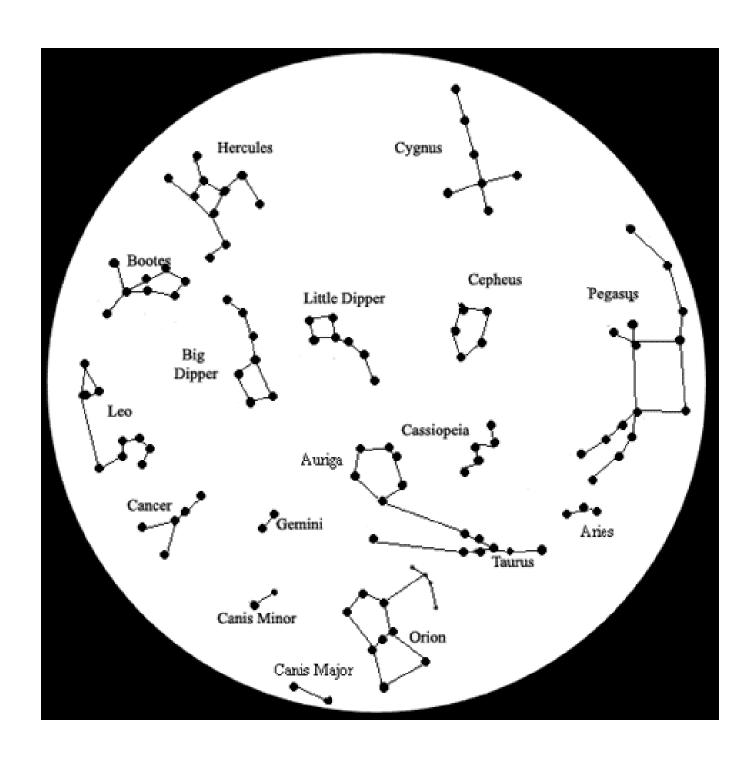


Turn left: With right arm and wand extended, left hand makes a "come





Stop: Fully extend arms and wands to the sides and slowly move to above the head until the wands cross.



Hula Hoop Math Toss Worksheet