



2015 -2016

IDEAS AT YOUR FINGER TIPS

MEETINGS MADE EASY

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## Websites

### Math sites:

<http://mathworld.wolfram.com/>

This website contains information, explanations, examples, and pictures, or graphs on the following; Algebra, Applied Mathematics, Calculus and Analysis, Discrete Mathematics, Foundations of Mathematics, Geometry, History and Terminology, Number Theory, Probability & Statistics, Recreational Mathematics, Topology

<http://www.maa.org/news/mathgames.html>

This website is created by the Mathematical Association of America (MAA). On the site you can find different math problems as well as the solutions and different games for your kids to play to keep them sharp.

<http://mathpuzzle.com/15Apr2005css.html>

This is a math bloggers site that lists math ideas and math puzzles. This site has the above site links as well as a list of math games on the right hand side which are linked to the MAA's site as well as other puzzles, and games.

<http://brainden.com/geometry-puzzles.htm>

This section of this website has geometry puzzles as well as a solutions link for each puzzle. You can print off the problem so that the students don't cheat or you can take them to the computer lab and have the students work at their own pace.

<http://brainden.com/algebra-puzzles.htm>

This is another link to the previous website this time with algebra problems.

<http://www.coolmath.com/>

This is a math website that can be used by teachers, parents, and students. You can find lessons, math problems, over 100 GAMES, and a math dictionary on this site.

<http://www.mathcats.com/>

This is a fun interactive site for younger students yet it can be used for students of all ages just for fun. There are crafts and activities on this site so don't rule this out because you might find your next MESA club activity here even if you have older students.

<http://www.funbrain.com/numbers.html>

This website has games that use math they even involve sports for the students who need to have a hobby tied into math!

## **Fun activities:**

<http://www.aliciaramirez.com/crypto/index.html>

This is a fun one! This is a cryptogram puzzle. The phrases have been exchanged with symbols and the students must decode it and figure out what it says. Take your kids to the computer lab for this one!!

<http://brainden.com/logic-puzzles.htm>

This website contains brain teasers, puzzles, and riddles.

<http://funschool.kaboose.com/>

These are internet games that your students may be interested in. The games range from arcade and video style to race car driving by solving math problems against an opponent. *[Link tested on 9-17-15. Forwards to a Disney Games page.]*

<http://school.discoveryeducation.com/brainboosters/>

This website will keep you busy for days! It has several brain teasers. Matching and thinking that will keep kids of all ages entertained you could even try some on the faculty, your friends, and family they're great!!

<http://future.state.gov/fun/>

This website has activities and information on the government, specifically the U.S. department of State. These are on-line activities for your students you can also print some of these out to hand out at a meeting.

<http://www.eduref.org/cgi-bin/printlessons.cgi/Virtual/Lessons/Interdisciplinary/INT0007.html>

If you are looking of a club activity this is the place to go!! There are lesson plans with explanations and a list of materials needed. These are challenging activities that are great for small groups. Have the students compete against each other for the best creation.

## **Science sites:**

[http://www.nist.gov/public\\_affairs/kids/morenist.htm](http://www.nist.gov/public_affairs/kids/morenist.htm)

This site is hosted by the National Institute of Standards and Technology. You can find; word finds Hidden pictures, riddles, word scrambles, metric measures, crossword puzzles, as well as other activities and information that your students may or may not know.

<http://www.scholastic.com/magicschoolbus/games/teacher/>

This is a science website. There are games, stories, printouts, and videos. You can also find science facts, on-line tours. This site can be used by parents, teachers, and students.

<http://www2.scholastic.com/browse/learn.jsp>

These are activities and information for kids from pre-K to seniors in high school. The site is user friendly and is divided into four sections; Language arts, Social Studies, Science, and Math. These are fun on-line activities for everyone yes, even the MESA advisor!

<http://www.strangematterexhibit.com/jump.html>

You can have your students learn about how sand gets transformed into a cell phone! Students love technology so let them find out how their toys get made! There are links for families, teachers, and students. You can also see on-line exhibits.

[http://www.alliantenergykids.com/stellent2/groups/public/documents/pub/phk\\_001537.hcsp](http://www.alliantenergykids.com/stellent2/groups/public/documents/pub/phk_001537.hcsp)

This site is all about energy conservation and renewable energy. These ideas are taught through the use of activities.

<http://pbskids.org/zoom/activities/sci/>

The topics on this site are; chemistry, engineering, the five senses, forces & energy, life science, patterns, sound, structures and water. Items are linked to an activity where students have to be creative, perform an experiment, or try to solve a science related problem.

<http://www.exploratorium.edu/explore/hands-on.html>

This site has several hands on activities from various different topics. Those found on this page are; machines & tools, society & culture, living things, activity collections, food, mind & perceptions, planet earth, human body, sport science, and observatory.

<http://www.hightechscience.org/activities.htm>

This site has fun activities and links to more science sites. This site was created by High-Tech Productions.com Science & Technology Center.

#### **MESA sites:**

- Math moves you; <http://www.mathmovesu.com/>
- Math playground grades k-6; <http://www.mathplayground.com/>
- Plastic bag Ice-cream; <http://www.teachnet.com/lesson/science/icecream051999.html>
- Making plastic;  
<http://www.spartechsoftware.com/reeko/Experiments/ExpMakingPlastic.htm>
- Making paper; <http://www.pioneerthinking.com/makingpaper.html> *[Link tested on 9-17-15. Redirects to [www.reekoscience.com](http://www.reekoscience.com)]*
- California MESA; <http://www.ucop.edu/mesa/home.html>
- Washington MESA; <http://www.washingtonmesa.org/>
- Maryland MESA; <http://www.jhuapl.edu/mesa/>
- Colorado MESA, <http://www.cmesa.org/>
- New Mexico MESA, <http://www.nmmesa.org/>
- Cabrillo College MESA, <http://www.cabrillo.edu/services/mesa/>
- Article on Women and minorities in Math, science, & engineering;  
<http://www.ericdigests.org/2003-2/women.html> *[Link tested on 9-17-15]*

## Field Trips

- Antelope Island State Park, Syracuse; <http://www.stateparks.utah.gov>
- Astro Camp Utah, Ogden; <http://www.astrocamputah.org>
- Bonneville Sea Base, Grantsville; <http://www.seabase.net>
- Clark Planetarium, Salt Lake City; <http://www.clarkplanetarium.org>
- Fish Hatchery – Mantua; <http://www.utahfishfinder.com/articles/mantua-fish-hatchery.html>
- Fish Hatchery – Springville;  
• <http://www.utahfishfinder.com/articles/springville-fish-hatchery.html>
- Gail Benjamin Living Planet Aquarium Preview Exhibit, Sandy;  
<http://www.thelivingplanet.com>
- George S. Eccles Dinosaur Park, Ogden; <http://www.dinosaurpark.org>
- I-World Simulation – Science Core Field Trips, Salt Lake City;
- Kennecott Visitors Center, Herriman;
- Monte L. Bean Life Sciences Museum, BYU Campus, Provo;
- Ott Planetarium, Weber State University, Ogden;  
<http://community.weber.edu/planetarium>
- Thanksgiving Point Dinosaur Museum, Utah County;
- Timpanogos Cave National Monument, Utah County; <http://www.nps.gov/tica/>
- University of Utah Star Parties; <http://www.utah.edu/astro/>
- Utah Museum of Natural History, U of U Campus, Salt Lake City;  
<http://www.umnh.utah.edu/>
- Hill Air Force Base, Hill Aerospace Museum;  
<http://www.hill.af.mil/library/museum/index.asp>
- Weber State University;
- Utah Museum of Fine Arts; <http://www.umfa.utah.edu/>
- University of Utah Electrical and Computer engineering department;  
<http://www.ece.utah.edu/>
- Hogle Zoo; <https://www.hoglezoo.org/>
- Monte L. Bean Life Science Museum, BYU
- North American Museum of Ancient life, Thanksgiving point, Lehi;  
<http://www.thanksgivingpoint.com/museum/>
- Utah Botanical Center, Kaysville;
- The Leonardo-Science--formerly the Utah Science Center, opening in 2010;  
<http://www.utahsciencecenter.org/>
- Recycle Utah Make every day earth day, Park City;
- Alf Engen Ski Museum Foundation/ Joe Quinney winter sports center, Park City;
- Geological Field trips in Northern Utah;
- Wheeler Historic Farm; <http://www.wheelerfarm.com/>
- Tracy Aviary; <http://www.tracyaviary.org/>

## Guest Speakers

\*Math and Science are everywhere from the department stores to top government officials. Be creative, ask individuals from different types of jobs and all walks of life to figure out how these are used in their career. Invite a friendly secretary who has to take care of payroll or a cashier that needs to know how to make change if the machine is broken.

\*Call Kennecott or see if someone you know or if one of the parents of your students works for this company.

**\*Principal Advisor, Government and Community Relations**

Gina Crezée

[gina.crezee@riotinto.com](mailto:gina.crezee@riotinto.com)

\* Always remember to ask the parents if they know anyone or if they themselves work for a company that uses math or science and invite them to come and speak to your students for 30 minutes to an hour.

\* Invite a speaker from L3 communications. <http://www.l-3com.com/csw/>

\*Look for a doctor, nurse, med student, or another individual in the medical field who is willing to come out and speak to your kids.

\* Invite the Peer Leadership Team from your local high school to speak to your students about issues they face at school.

\* Invite a college professor to speak to your MESA club.

\* Look over the field trip list when you contact the locations ask them if they have an individual who would be willing to be a guest speaker.

\* Speak with old MESA students who have graduated and ask them to come and speak with your club about the importance of MESA and higher education.

\* Invite a college athlete in to speak about the importance of school if they would like to compete at a college level.

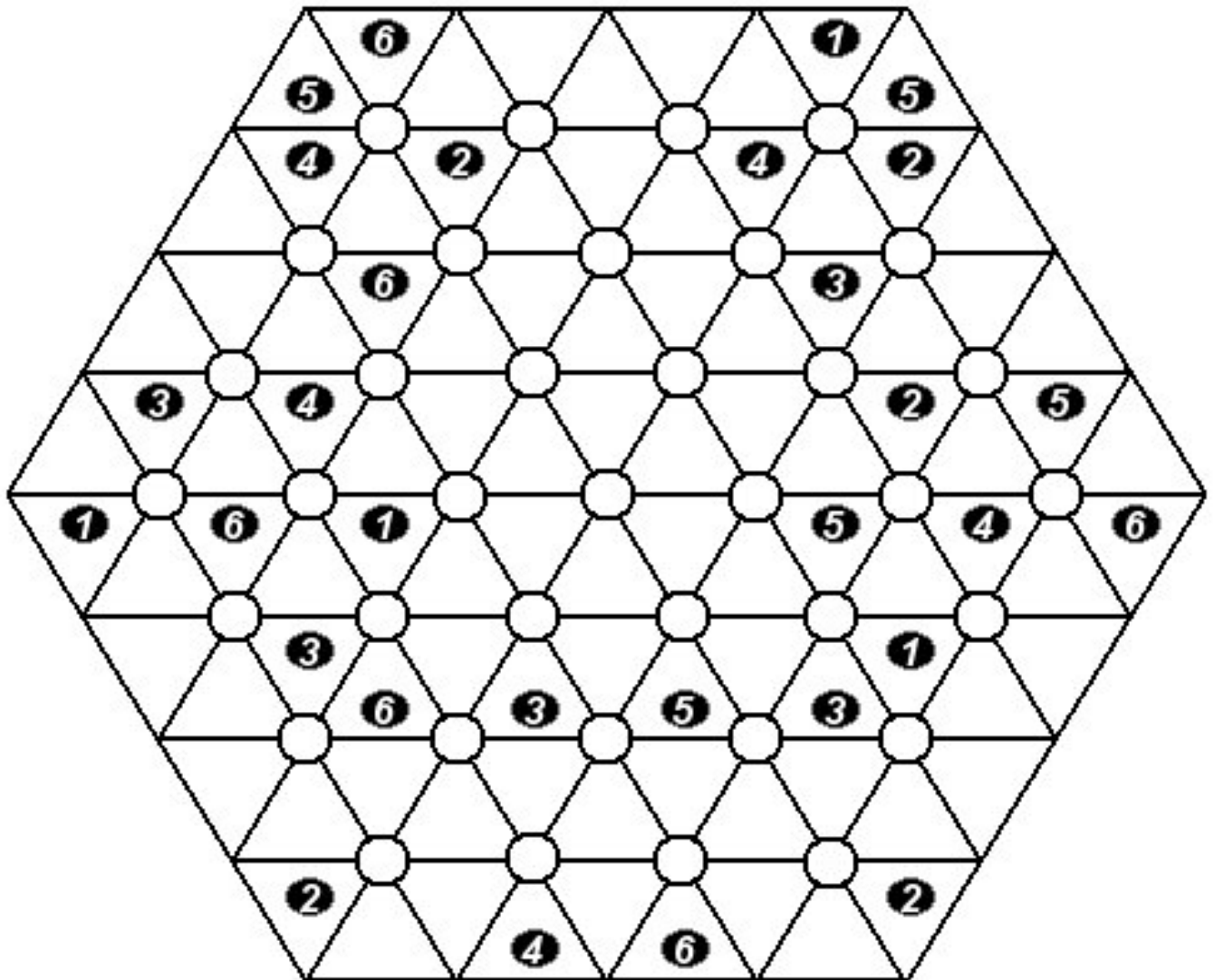
\* Ask someone who works in Research Park with medical research and genetics to present to your club..

\* Invite the local weatherman or someone who does the news to come and speak on the different kinds of technology needed for these careers.

\* Talk to a firefighter or policemen, have them tell about the importance of math and equations in their job when they have to figure out how an accident or incident happened and write the reports.

Activities

# Hexafex



[www.hexafex.com](http://www.hexafex.com)

Web Puzzle #9



## Make Your Own Kite

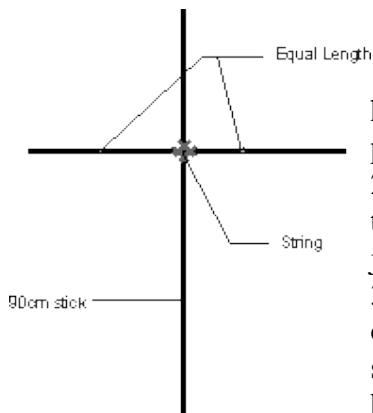
### A kite consists of these basic parts:

- \* The **Spine**. The up-and-down or vertical stick that you build your kite around.
- \* The **Spar**. The support stick(s) that are placed crossways or at a slant over the spine. Sometimes they are curved or bowed.
- \* The **Frame**. The joined spine and spars, usually with a string connecting their ends that form the shape of the kite and make a support for the cover.
- \* The **Cover**. The paper, plastic, or cloth that covers the frame to make a kite.
- \* The **Bridle**. One or more strings attached to the spine or spars, which help control the kite in the air.
- \* The **Flying Line**. The string running from the kites' bridle, where you hold to fly the kite.
- \* The **Tail**. A long strip of paper or plastic or ribbon that helps to balance the kite in flight. Not all kites need tails.
- \* The **Reel**. The object you use to wind your flying line, to keep it from getting tangled or flying away.

### DIAMOND KITE

#### Materials:

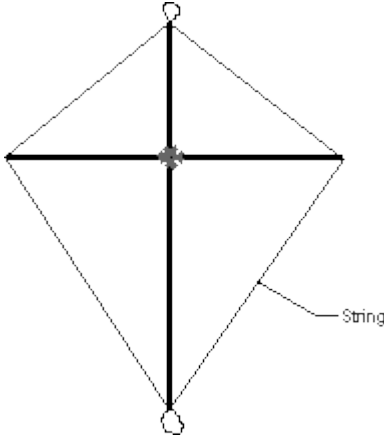
- \* butcher cord or thin garden twine
- \* scotch tape or glue
- \* 1 sheet of strong paper (102cm x 102cm)
- \* 2 strong, straight wooden sticks of bamboo or wooden doweling 90cm and 102cm
- \* Markers paint or crayons to decorate you kite.



1. Make a cross with the two sticks, with the shorter stick placed horizontally across the longer stick. Make sure that both sides of the cross piece is equal in width.
2. Tie the two sticks together with the string in such a way as to make sure that they are at right angles to each other. A good way to ensure that the joint is strong to put a dab of glue to stick it in place.
3. Cut a notch at each end of both sticks. Make it deep enough for the type of string you are using to fit in to. Cut a piece of string long enough to stretch all around the kite frame. Make a loop in the top notch and fasten it by wrapping the string around the stick. Stretch the string through the notch at one end of the cross-piece, and make another loop at the bottom. Stretch the string through the notch at one end of the loop at the bottom. Stretch the string through the notch at the other end of the cross-piece. Finish by wrapping the string a few times around the top of the stick and cutting off what you don't need. This string frame must be taut, but not so tight as to warp the sticks.
4. Lay the sail material flat and place the stick frame face down on top. Cut around it, leaving about 2-3cm for a margin. Fold these edges over the string frame and tape or glue it down so that the material is tight.

5. cut a piece of string about 122 cm long. And tie one end to the loop at the other end of the string to the loop at the bottom. Tie another small loop in the string just above the intersection of the two cross pieces. This will be the kite's bridle, the string to which the flying line is attached.
6. Make a tail by tying a small ribbon roughly every 10cm along the length of string. Attach the tail to the loop at the bottom of the kite.

7. Decorate!



**Tips:**

- \* A properly located pivot point is generally located slightly ahead of the centre of gravity.
- \* Cut away from you!
- \* Spray can glue is really good for patching up paper kites.
- \* Stability is improved by the use of an effective bow and a flexible tail.
- \* Hold your kite up by the string when you are finished to see if it is balanced. You can balance it by putting more paper on one side.

\* Kites are different each time you make one, so slight adjustments might need to be made for each kite.

Found: <http://www.skratch-pad.com/kites/make.html>

### Bridge Building

<http://www.worsleyschool.net/science/files/bridge/building.html> [Link not working on 9-17-15]

Build a bridge out of toothpicks

Build a bridge using ordinary flat toothpicks and white glue.



You must build a free standing bridge.



The bridge must be level, free standing, and must be able to hold the maximum amount of weight. Slowly add more weight to see how much the bridge can hold without swaying while remaining level.

You can only use plain white glue at the points of contact and cannot saturate the toothpicks or the bridge with glue.

The bridge fails if it sways or flexes more than 2cm.

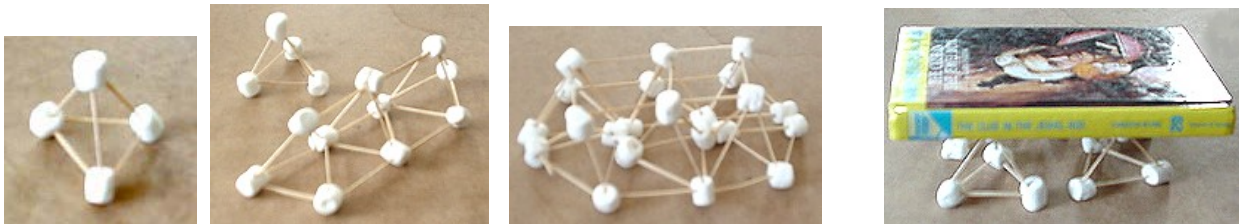
## Build a Bridge using Marshmallows

The idea of this bridge is to use marshmallows and toothpicks instead of glue. However you will need to create several tetrahedrons to accomplish this task.

The students can create beams by joining several of these tetrahedrons together.

Have the students use their creativity to see how they can create a bridge that will hold the greatest amount of weight.

An alternative to marshmallows is plasticene or any other kind of sticky substance such as play dough.



## Build a Bridge out of Spaghetti

**Materials:** Packets of Spaghetti and bottles of Elmer's Glue. One each for each team of 4 students. Have your students get into groups of 4. Give them a packet of spaghetti. Give them a time frame and tell them they must build a bridge using the spaghetti and glue (or tape).

**Instructions:** This must be tall enough for a water bottle to pass under it both standing and rolling and strong enough to hold the water bottle.

## Build a Bridge out of News Paper

**Materials:** a bag of newspaper and a roll of masking tape for each group

**Instructions:** Have your students get into groups of 3 or 4 give them the materials. Give them a time frame (about 25 minutes) and tell them they must build a bridge using the these materials that is free standing that is tall enough for a Large jar of pickles to pass under it both standing and rolling and strong enough to hold the jar on top without anyone holding it. These are all the instructions you can give the students.

## Towers

### Marshmallow and Spaghetti Tower

**Materials:** a handful of spaghetti and 50 marshmallows of any size

**Instructions:** The idea is to create the tallest freestanding tower that can hold an object such as a book, ball, toy car, or anything else you can come up with. You can substitute the spaghetti with toothpicks.

### Straw Tower

**Materials:** 15 Straws

**Instructions:** Build a tower out of the materials provided see how tall and sturdy you can make it.

### Paper Tower

**Materials:** 3 pieces of paper, scissors, 24" of tape

**Instructions:** Build a tower out of the materials provided see how tall and sturdy you can make it.

Sudoku

	<b>5</b>			<b>2</b>			<b>8</b>	
<b>2</b>			<b>7</b>				<b>6</b>	
<b>9</b>		<b>6</b>	<b>1</b>			<b>3</b>		
			<b>2</b>	<b>4</b>			<b>5</b>	
<b>6</b>								<b>8</b>
	<b>4</b>			<b>7</b>	<b>9</b>			
		<b>3</b>			<b>7</b>	<b>2</b>		<b>5</b>
	<b>6</b>				<b>1</b>			<b>3</b>
	<b>8</b>			<b>9</b>			<b>7</b>	

761-6300 - [www.Sudoweb.com](http://www.Sudoweb.com) - Free Sudoku and ebook

Easy Wordoku for 25-2-2006

	E		I	A	T		C	M
		T				E		L
	A	R	L	C	E		I	
					C	F	L	
			M	F	A			
	F	I	R					
	M		T	L	I	A	F	
T		A				L		
I	L		A	M	R		T	

Letters used: E,L,A,F,R,M,T,I,C

Answer

F	E	L	I	A	T	R	C	M
C	I	T	F	R	M	E	A	L
M	A	R	L	C	E	T	I	F
R	T	M	E	I	C	F	L	A
L	C	E	M	F	A	I	R	T
A	F	I	R	T	L	M	E	C
E	M	C	T	L	I	A	F	R
T	R	A	C	E	F	L	M	I
I	L	F	A	M	R	C	T	E

Medium Wordoku for 25-2-2006

T	G	E	I				C	
	I					L		
	R		G					
			L		I	G	E	
I	N			E			L	T
	E	G	A		R			
					C		R	
		I					N	
	C				L	E	T	G

Letters used: T,A,E,N,I,R,G,C,L

Answer

T	G	E	I	L	A	R	C	L
A	I	C	T	R	N	L	G	E
N	R	L	G	C	E	T	A	I
C	A	T	L	N	I	G	E	R
I	N	R	C	E	G	A	L	T
L	E	G	A	T	R	N	I	C
G	T	N	E	A	C	I	R	L
E	L	I	R	G	T	C	N	A
R	C	A	N	I	L	E	T	G

Hard Wordoku for 25-2-2006

	C					T	P	L
Y					P	Q		
	T			B				
C	J			T				P
I				Y			J	T
				P			Q	
		I	Q					J
T	B	Q					L	

Letters used: Q,I,T,P,L,Y,B,C,J

Answer

B	C	J	I	Q	Y	T	P	L
Y	I	L	T	J	P	Q	B	C
Q	T	P	C	B	L	J	Y	I
C	J	Y	L	T	Q	B	I	P
L	P	T	B	I	J	Y	C	Q
I	Q	B	P	Y	C	L	J	T
J	L	C	Y	P	T	I	Q	B
P	Y	I	Q	L	B	C	T	J
T	B	Q	J	C	I	P	L	Y



## A Cents of Floating

### Materials:

10 drinking straws, per team  
50 inches of masking tape, per team  
1-2 pans with 1" of water in them  
100 pennies

### Activity:

Give each group 10 drinking straws and 50" of masking tape. Give them about ten minutes to build a raft using the straws and tape. The idea is to build the raft that will hold the most pennies without sinking. When they are finished with the raft they need to bring it up to the pans of water to be tried out for the float. They are not allowed to test the raft. Give awards for the winning raft or for the top three places.

### Variations:

You can allow teams to use scissors.

From *More Activities That Teach*

## Add A Word

### Materials:

1 piece of paper per team  
1 pen or pencil per team  
1 watch with a second hand

### Activity:

Divide your club into groups of four or five. Each team needs a piece of paper and a pen or a pencil. The object of this activity is to see which team can create the longest sentence possible. You will give them the first few words in the sentence then each member of the team will take turns adding a word to the sentence. The sentence must have a logical ending and must make sense. With each turn the paper and pencil must be passed as each word is added to the sentence. You can even give the students a specific topic to write about. Read the sentences out loud when finished.

## Chain Gang

### **Materials:**

- 2-3 pairs of scissors per team
- 2-3 long strips of masking tape per team (2 feet)
- 20 sheets of scrap paper per team
- 1 blindfold per person or something to tie the students hands together

### **Activity:**

Divide your club into groups of five and have them sit on the floor. Each team needs a stack of paper, 2-3 scissors, and 2-3 long strips of masking tape. Use the blindfolds to tie the each team's hands together. Their wrists should be tied together so that the students are in a circle. The students must work together to create the longest chain using the paper and masking tape. They should only be given about 10 minutes to do this.

## Partners

### **Materials:**

- 1 piece of notebook paper per team
- 1 newspaper sheet per team
- 1 rubber band per team
- 1 balloon per team

### **Activity:**

Have the kids' pair up. This entire activity must be done while the students are holding hands (one hand). Chose one of the following; make a paper airplane, untie and tie one persons shoe, roll up a newspaper and put a rubber band around it, blowup the balloon and tie it, do a somersault. They can not let go of their partners hand during the entire duration of the activities.

## River of Fire

### Materials:

- 20 feet of thin rope
- 3 tennis balls per team
- 4 blindfolds per team
- 1 roll of masking tape

### Activity:

Use masking tape to create the edges of the river. Make the river at least ten feet wide. Place two blindfolds and the rope on one side and two blindfolds the three tennis balls on the other side. Divide the students into groups of 4-6 and read the story. Afterwards give the students 3 minutes of planning time. After the time is up they must split the team up half on each side of the river. They must then begin to move the containers across the river. You, the river guardian, are the only one that can move freely across the river. As the river guardian you must make sure the students obey all the rules, you can set a time limit on this activity if you'd like. Remind the students that by throwing or flinging the containers across the river they will explode.

### Your Special Mission

An environmental team has been sent to an island to dispose of three radioactive containers. The team's helicopter has crash landed next to a molten lava river that no one can get across. Part of the team has landed on one side of the river and the rest of the team landed on the other side. All three containers landed on one side of the river. Everything burned during the crash except for four pieces of cloth, a length of rope and the clothes that you are wearing. The radioactive containers are emitting a radioactive light that can't be seen, but is deadly to the human eye. Therefore, anytime anyone touches the containers or the rope, he/she must be blindfolded.

Your job is to transport the three containers from one side of the river to the other so they can be moved to a safer location. The containers must not be subjected to quick movements or they will explode. Since the containers might explode, they must be moved across the river one at a time. Nothing can be used from the surrounding area to help you transport the containers because the area is infected with a jungle virus that is spread by touching. If during the transporting of the containers any part of the containers any part of the rope, the containers or the bodies of the team members touch the river, then all three containers must be returned (by the river guardian) to the other side of the river from which they came.

**Good Luck and Be Safe!**

## The Sky's The Limit

### **Materials:**

10 empty soda cans per team, plus a few extra  
2 large marshmallows per team  
2 blindfolds per team  
Masking tape

### **Activity:**

Divide your club into teams of four. Use the tape to create squares that are five feet in diameter. Give each team their cans and marshmallows. The idea is to use the cans and marshmallows to create a tower with the base being only one can with each level being only one can wide. Give them only about five minutes to do this. Two team members must be blindfolded and only the blindfolded team members can touch the cans. The team members can change places at any time during the activity. Teams may throw their marshmallows at the other towers to try and knock them down they may not however pick up a marshmallow that has already been thrown to use again it may only be used once and they can block incoming marshmallows. Team members must stay inside the five foot square they can not leave. The teams can send one person out of the box to get more cans from the extra pile once they have used up all of their cans.

## Awesome Lap Sit

### **Materials:**

None

### **Activity:**

Have your group stand in a circle turn them all to the right and take small steps into the center of the circle. They continue to move into the center until they are close to the person in front of them and close to the person behind them. Each student is responsible for the students in front of them. Have the students sit down on the lap of the person behind them.

### **Variations:**

Once the students are sitting have the students clap. Have them walk while seated one full rotation.

## Blind Walk

### **Materials:**

One blindfold for every two participants

### **Activity:**

If there is good weather have the students go outside. Have the group get into partners. Everyone must behave responsibly. One partner will be blindfolded while the other takes on the roll of the leader. Have the leader take the blindfolded person through an obstacle course. This course can consist of stars around objects under objects over objects anything you can think of, it should last about five minutes. Once they finish have the partners switch places.

## Building what you hear

### **Materials:**

- 20 multicolored mini marshmallows for every three students
- 20 multicolored toothpicks for every three students
- A lunch sack or plastic bag for every team of three

### **Activity:**

Have your students get into groups of three. Each group needs to create a design using up to ten colored toothpicks and ten colored marshmallows. This design must lay flat on the floor or a table and must be two dimensional. As they create their design they must set aside the exact number of toothpicks and marshmallows they use and place them into the sack. Once they are finished they must designate a builder, a messenger, and an explainer.

At this point the explainers go and sit by a different team design the other members of the group can not see the other design!! The builders must go to the opposite end of the room with the bag of toothpicks and marshmallows away from the other group. The builder must sit facing away from the explainer so that the explainer can not see the design the builder is making. The explainer will tell the messenger what the design looks like. Then the messenger goes across the room to the builder and tells him what the design looks like and the builder begins to build and reproduce the design. The messenger can not look at the builders design while the process takes place.

The messenger can make as many trips necessary until the design is completed. At no time can the messenger see the design the builder is creating or that the explainer is looking at. Questions may be asked at any point in the process but the messenger may never look!

When the teams are finished recreating their designs they need to get together and see how close they are to duplicating the original design and figure out how well they were at communicating.

### **Variations:**

You can have more than one messenger helping the activity move faster.

Mix up the colors of toothpicks and marshmallows.

Make it more challenging have the students create a three dimensional object.

## Four on a String

### **Materials:**

1 eight foot length of string or rope per group of four

3 blindfold per group

### **Activity:**

Divide your club into groups of four give each group their materials of 3 blindfolds and an eight foot length of string/rope. Three people in the group need to be blindfolded. The group needs to line up with the non-blindfolded member being third in line. All four individuals must grab onto the string/rope. They are not to let go of the string/rope at any time.

Design a course around the school yard going around trees, cars, under jungle Jims, up stairs, ect. The point of this activity is to have the third person in line (the un-blindfolded individual) lead. This activity should last five minutes. No one may speak but the leader. No one may touch anything but the string/rope. After a few minutes rotate the members of the group until everyone has a turn at being the leader.

The object of this activity is for the third person in the line up to lead the entire group through the course you have designed. You or the designated leader of the activity should show the entire group the course before beginning the activity. Remember that everyone needs to have a turn leading or being the “sighted” member of the group.

## Mount Everest

### **Materials:**

1 piece of masking tape per team

A wall that is about 18 feet high (the side of a building, the gym, the cafeteria)

### **Activity:**

Divide your group into teams of five. The team must place a piece of masking tape as high on the wall as they can use nothing but the other team members to help them.

### **Caution:**

No one may be thrown or may jump during the activity. Each team must have a minimum of two spotters at all times. The teacher has the final say on techniques that may or may not be dangerous.

## References

Bridges: ~~<http://www.worsleyschool.net/science/files/bridge/building.html>~~ [Link not working on 9-17-15]

Kites: <http://www.scratch-pad.com/kites/make.html>

Sudoku: <http://www.sudoweb.com/>

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