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| The challenge:  The school needs your help! The water tank has an overflow pipe for when the tank gets full. When water comes out of the overflow pipe, it runs out onto the ground and is wasted. You job is to create a model for a system that will catch as much water as possible, allowing for easy access to the water so that it can be poured on the garden. | Pictures:  [http://sphotos.ak.fbcdn.net/hphotos-ak-snc4/hs258.snc4/40221_452415630638_679360638_6791068_7148295_n.jpghttp://sphotos.ak.fbcdn.net/hphotos-ak-snc4/hs287.snc4/40679_452416315638_679360638_6791072_3036514_n.jpg](http://www.facebook.com/photo.php?pid=6791068&id=679360638) |
| How to tackle the challenge:  The first thing you will need to do is measure the school water tank in width, length and depth. Record the information on a piece of paper. Remembering all the work you have done drawing objects to scale, you will make the model of the water tank roughly one tenth its actual size.  Using the materials listed below, create your water recycling model. You can be as creative as you want. Remember, inventors aren’t afraid to innovate! You can create your model so the water ends up in a watering can or bucket. Or you could create a ramp that carries the water to the garden. It is up to your group to decide! | http://www.infonet-biovision.org/res/res/files/755.500x500.pngImage |
| Materials to use to create your water recycling model:  Your model for a water recycling system can be created using: plastic bottles, card board, rubber bands, masking tape, glue, pipe cleaners, hose pieces, scissors, ice-cream containers, paddle-pop sticks, metre ruler, calculator, a piece of paper and something to write with. If you want to test your model, just add water! | http://plaspropipes.com/cat-hose.jpghttp://www.ci.eden.nc.us/plastic%20bottles.jpg |
| Some extra information to help you get started (if you need it): | <http://www.youtube.com/watch?v=q8_72a9BDHU&feature=related>  <http://www.youtube.com/watch?v=GLsTolTbgyA&feature=related> |