

Snowball Fight



The snow has melted and flowers are blooming.
But with a little imagination
we can squeeze in one last snowball fight of the year!



- Popsicle sticks – small planks
- Rulers – large planks
- Film canisters - barrels
- Cotton balls – to simulate snowballs
- Marshmallows – to simulate snowballs
- Assorted Legos – bricks in limited numbers
- Rubber bands – NO FLYING RUBBER BANDS ALLOWED!!
simulated bungee cords
- Pencils – unsharpened for logs
- Plastic cups - target
- Paper clips - wire
- Washers - wheels
- Twist ties – wire

Using the materials provided,
you have the challenge of building a snowball throwing machine.
Can you create a machine that is able to launch a snowball (marshmallow or cotton ball) that can hit the plastic cup target?
Go to the following websites to get ideas on how simple machines called levers work.

<http://www.usoe.k12.ut.us/curr/science/sciber00/8th/machines/sciber/lever1.htm>
<http://www.dynamicscience.com.au/tester/solutions/hydraulicus/simplemachineslevers1.htm>
<http://www.usoe.k12.ut.us/curr/science/sciber00/8th/machines/sciber/lever2.htm>
<http://www.dynamicscience.com.au/tester/solutions/hydraulicus/simplemachineslevers6.htm>
<http://www.usoe.k12.ut.us/curr/science/sciber00/8th/machines/sciber/lever3.htm>
<http://www.dynamicscience.com.au/tester/solutions/hydraulicus/simplemachineslevers7.htm>

Keep records of how far your machine can launch a snowball and how accurate your machine is.

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