

Plumbing Challenge



Create your very own plumbing system! Move water from one spot to another, in this cool plumbing challenge. Are you up for the task???

Registration is required for this challenge and closes on March 8th – Maximum of 100 registrations will be accepted.

Contest starts March 29th and ends April 4th, 2021 at 12:00 p.m.

Contest will be judged in three age groups: Grade K-4 / Grade 5-8 / Grade 9-12.

Each age group will have 1st, 2nd, and 3rd place winners.

1st place-\$75, 2nd place-\$50, 3rd place-\$25.

All winners will receive Amazon e-gift cards.

Challenge Materials

1- 4ft piece of flexible pipe • Duct/Tuck Tape - Provided by Skills Manitoba

Scissors • Paper • Pencil • 3 cups of water • Measuring cups • Bowls • Measuring tape or ruler • Phone or Camera • Any household materials to help create pipe system: toilet paper roll, pop bottle, cardboard, etc.

Challenge Rules

1. Challengers must first create blueprints for their pipe system. Then take a photo.
2. By using pipe provided along with other household supplies, challengers must build a pipe system. Pipe system must be no more than 6 feet tall.
3. Pipe system must include at least 3 bends or turns.
4. When you have completed building the system, take a photo with measuring tape to prove the measurements match your blueprints.
5. Show us how your system works. Take a video of you pouring 3 cups of water into your pipe system. Make sure to place a bowl at exit to catch water coming out. Video record the water coming out at the other end. Please also include in your video a measurement of how many cups of water made it out of your plumbing system.
6. Make sure to follow the legend below to see how you will be graded.
7. Please send your name, grade level, pictures, blueprints and videos to skillsmb@skillscanada.com, no later than April 4th at 12:00 p.m.



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* The winning photos or videos may be posted to our social media accounts. **Note:** Photos and videos must be appropriate for all audiences. Any offensive photos or videos are automatically disqualified.

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Judging/Scoring

Blueprints

No blueprints provided	0 points
Challenger had blueprints with measurements	5 points
Blueprints were to scale with measurements outlined. Provided height of plumbing system in an image.	10 points
Blueprints were to scale with measurements outlined. Detailed. Provided height of plumbing system in an image. Straight edge was used. Lines are neat and clean	15 points

Water Challenge

Video displayed no water coming out of pipe systems exit	5 points
Video displayed some water coming out of pipe systems exit	10 points
Video displayed some water coming out of exit, water measurements were recorded on video and 1 cup or less of water made it through	15 points
Video displayed some water coming out of exit, water measurements were recorded on video and more than 1 cup, up to 2 cups made it through	20 points
Video displayed some water coming out of exit, water measurement were recorded on video and more than 2 cups but less than 3 cups made it through	25 points
Video displayed water coming out of exit. Water measurements recorded on video and all 3 cups made it through.	30 points

Design

Challenger's submission was made from correct materials	5 points
Challenger's submission was made from correct materials and met the height requirements	10 points
Challenger's submission was made from correct materials, met height requirements and had at least 3 bends or turns.	15 points

For more fun activities like this one, check out this link: <https://safeathomemb.ca>