

## MATERIALS

- 8–10 drinking straws
- Masking tape
- Scissors
- Carton of chocolate milk (or any dark liquid to be seen through the straw such as a can of dark carbonated soda or small cup of chocolate syrup)

## INSTRUCTIONS

1. The material getter should get the materials listed above from the material workstation.
2. Using the scissors, cut a 1 centimeter slit at one end of each straw.
3. Join the straws end to end to form one long tube. Place the slit end of the straw into the inside of the adjoining straw.
4. Place masking tape over each connected end to secure the joint and create an air tight seal.
5. Place the carton of chocolate milk on the floor. Insert the extended straw “tubing” into the carton. Try to bring the liquid to the top of the “tubing” using his/her suction.
6. Now, decrease the number of straws used for the “tubing”. Same student try to bring the liquid to the top.

## CONCLUSIONS

1. Which length of straw required the most effort to bring the liquid to the top? Which length of straw required the least effort to bring the liquid to the top?

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2. Does the length of the straw “tubing” make a difference in the amount of suction needed to lift the chocolate milk?

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3. As a group, discuss and decide what kind of equipment would we need to lift oil from rock 7,500 feet (2286 meters) below the earth’s surface.

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