## PARTICIPANT HANDOUT

TEAM NAME: $\qquad$


Credit: Le principe de Bernoulli (available in French)
http://www.alloprof.qc.ca/BV/pages/s1130.aspx\#Principe\ de\ Bernoulli

## MISSION INSTRUCTIONS

1. Using the scientific method, perform the five experiments below.
2. At the end of each experiment, share your reflections on the observations you made.

## THE SCIENTIFIC METHOD

Questioning: What do you want to find out? What do you want to observe?
Hypothesize: Make a prediction as to what you think will happen during this experiment.
Experimentation: Perform your experiment.
Observation: See what happens.
Conclusion: Record your results. Was your hypothesis correct?

## Experiment 1: Sheet of Paper in the Wind

- Place a sheet of paper flat, in front of you, and blow over the sheet with the straw (horizontally).


## Experiment 2: Ball Behaviour in a Jet Stream

- Connect a hair dryer without a nozzle and switch it on.
- Point the jet stream up and place a ping-pong ball in the centre of the stream.


## Experiment 3: Distance Between Two Aluminum Cans

- Place two empty cans 2 cm away from each other.
- Blow with a straw between the two cans.


## Experiment 4: Balloons in Love

- Hang two inflated balloons 5 to 10 cm apart from each other using string and a support rod.
- Use a straw to blow air between the two balloons.


## Experiment 5: Roll, Toilet Paper, Roll!

- Insert a full roll of toilet paper on a stick.
- Have two group members hold the stick at either end.
- Turn on the hair dryer with the nozzle on, and point the stream horizontally at the top of the roll of toilet paper.

| Experiment | Hypothesis | Observations | Explanations |
| :---: | :---: | :---: | :---: |
| Sheet of Paper in the Wind |  |  |  |
| Ball Behaviour in a Jet Stream |  |  |  |
| Distance Between Two Aluminum Cans |  |  |  |
| Balloons in Love |  |  |  |
| Roll, Toilet Paper, Roll! |  |  |  |

