

## **SCIENCE RENDEZVOUS AT ONTARIO TECH PRESENTS:**

# ELEPHANT'S TOOTHPASTE

## HANDS-ON SCIENCE EXPERIMENT AT HOME!

## **MATERIALS**

- → Empty plastic soda or water bottle label removed (473 mL works best, but larger ones will also work)
- → 3% hydrogen peroxide (typically found in grocery stores or pharmacies)
- → Dry active yeast or 1 package of instant yeast
- → Warm water
- → Liquid dishwashing soap
- → Food colouring
- → Small cup
- → Funnel
- → Safety goggles

## **INSTRUCTIONS**

- ightarrow Place ½ cup of 3% hydrogen peroxide into the bottle using the funnel
- → Add 10 drops food colouring to the bottle
- → Add 1 tablespoon of liquid dish soap to the bottle and swish it around to mix it
- → In a separate cup, combine 3 tablespoons of warm water and 1 tablespoon of yeast and stir together for about 30 seconds (it should look like melted ice cream - add more warm water if needed)
- → Use the funnel to pour the yeast-water mixture into the bottle and watch the toothpaste form!

#### **IMPORTANT SAFETY NOTES**

- ! Do not eat or touch the foam. It may have some unreacted hydrogen peroxide which could irritate eyes and skin
- ! Ask an adult to pour the hydrogen peroxide into the bottle and handle it with care
- ! Before the experiment, place the bottle inside a tray or container. Perform the experiment on a washable surface as the foam will overflow



