



## LESSON PLAN

### Season 2/Episode 3

#### *Make a Fizzy Eruption* (Investigating 'Pressure')

Let's Find Out features Captain Zoom and her crew of scientists with exciting experiments, curious kids and a trip to a faraway place. Produced with support from Science Foundation Ireland.

**Class Level:** First/Second Class  
**Strand:** Materials  
**Strand Unit:** Materials and Change  
**Content Objective:**

- Begin to investigate how materials may be changed by mixing

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**Class Level:** Third/Fourth Class  
**Strand:** Materials  
**Strand Unit:** Materials and Change  
**Content Objective:**

- Begin to investigate how materials may be changed by mixing

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**Assessment Method(s):**

- Teacher observation
- Teacher designed tasks and tests
- Work samples
- Self-assessment
- Conferencing
- Portfolio assessment
- Concept mapping
- Questioning

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# Lesson: Making a Mini Wind Turbine

## Lesson Introduction

- The teacher will begin the lesson using WALT and WILF.
- Question the children on their prior knowledge of wind.
- Click [HERE](https://www.youtube.com/watch?v=fFQvmc9iS4Y&list=PLer4jkNChuybHYhU-YSs5LW-TuLKz_SQk&index=5) for a whole class demonstration on how to create a Fizzy Eruption.  
([https://www.youtube.com/watch?v=fFQvmc9iS4Y&list=PLer4jkNChuybHYhU-YSs5LW-TuLKz\\_SQk&index=5](https://www.youtube.com/watch?v=fFQvmc9iS4Y&list=PLer4jkNChuybHYhU-YSs5LW-TuLKz_SQk&index=5))
- *WARNING: Carry out this experiment outside!*

## Lesson Development

- Place four mentos mints in the geyser tube. Make sure each one sits flat on top of the other.
- Place the cap on top.
- Place the bottle of cola flat on the ground, outside and in an area that is safe to cover in cola.
- Remove the lid from the cola bottle.
- Carefully screw the geyser tube onto the top of the cola bottle.
- When you are ready, release the mentos into the cola bottle, by pulling out the red switch on the side of the tube
- Stand well back and see what happens.

## Lesson Conclusion

- Talk and Discussion
- Discuss children's observations

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## Lesson: Making a Mini Wind Turbine

Resources	Methodologies	Linkage/Integration
A bottle of cola (2 litre works well and diet is less sticky) A packet of mentos sweets A geyser tube with adaptors	Talk and Discussion Active Learning Skills through Content Use of the Local Environment Problem Solving	Add in at teacher's discretion

### Inclusion and Diversity/Differentiation (Differentiate at teacher's discretion)

Content:

Product:

Activities:

Environment:

Resources:

Teaching Strategies:

### Scientific Explanation:

Did you get a really big eruption of cola? That is because the cola is packed full of a gas called carbon dioxide, it makes the bubbles when we pour the cola. But inside the bottle, that gas is usually dissolved in the cola.

The mentos have tiny dimples or pits on their surface, just the right size and shape for the carbon dioxide to form bubbles. It is called nucleation and all the carbon dioxide that is dissolved in the cola forms these tiny bubbles all at once. Those bubbles get trapped in the cola and create lots of pressure, so much so that it shoots that bubble filled cola into the air in one big eruption.

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