



## Targeted Teaching Topic

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### Summary of Topic:

Students will determine if they are “PTC” tasters or not. The class will determine if this trait is dominant or recessive.

### Main Curriculum Tie:

Teamwork within the class and mathematical computations.

### Required Materials for Lesson:

- PTC paper.
- Plain copy paper.
- Calculator.

### Background for Teacher:

Discuss the concept of dominance and recessive traits.

### Student Prior Knowledge:

Understand what a trait is. Be able to distinguish the difference between dominant and recessive traits (Mendelian genetics).

### Intended Learning Outcome:

Determination of “PTC” paper tasting as a dominant or recessive trait.

### Instructional Procedure:

- Students will chew on a small piece of copy paper for 1 minute.
- Place a strip of “PTC” paper into mouth and chew.
- Determine if the “PTC” has a bitter taste or not.
- Using class data, determine if this is a dominant or recessive condition.

### How to Measure Outcome:

Students should mathematically determine if this is a dominant or recessive trait.