

Name: _____

Date: _____

Section: _____

Yeast Respiration Activity

Yeast: The Amazing Energy Makers!

Phase 1: ENGAGE (5 minutes)

Getting Started: Open peebedu.com and navigate to Yeast Respiration Simulator

First Impressions: Look at the beaker. What do you see? _____

- Orange/red liquid = _____

Find the three types of yeast. Which one sounds familiar? _____

Big Question: How do yeast make bread rise? What gas do they produce?

Fun Fact: You have trillions of cells that work like yeast to make energy!

Phase 2: EXPLORE (18 minutes)

Adventure 1: Feed the Yeast!

Choose Baker's yeast and set temperature to 25°C.

Testing Different Foods: Click each substrate button and watch what happens:

- ——— Fast / Slow Bubbles?

Lots / Little Products

Exit Ticket:

The coolest thing about yeast is _____ because _____

One question I still have: _____

- —

Amazing Yeast Facts!

- One yeast cell is smaller than a grain of sand
- Yeast have been making bread for 5,000 years
- Some yeast can survive in space!
- Your body has helpful yeast too
- Yeast burp out CO₂ just like you breathe it out!

Key Vocabulary

See activity for vocabulary specific to this topic.