

Bucket of Trouble

Lesson Plan



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The Task

The ceiling of Betty's kitchen has a leak. She hears 10 drips of water in 15 seconds. She puts a bucket under the leak and frantically calls the plumber. The plumber can't be there for 5 hours. Will Betty need to empty the bucket? How much water will she waste?

Materials

- The task
- Bucket (gallon)
- Eye dropper
- Water
- Timer
- One large presentation paper per group

Facilitating Task

- Class will be divided into groups of 3-4 students.
- Read the task together and answer clarifying questions.
- Groups will be given materials upon request.
- Give students individual think time and then work together in groups.
- Groups present findings during last 10-15 minutes of class.

Misconceptions

- One drop of water is negligible
- What measure of time should be used
- What measure of volume should be used

Suggested Prompts or Questions

- What is the volume of 10 drops of water? Does it fill a cup?
- How many seconds in a minute? How many minutes in an hour?
- How many cups in a gallon?