

Water in a Bucket

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Time Taken: ~5 min

Objectives: (optional)

The students will:

- Understand the concept of centripetal acceleration

Materials:

- Bucket
- Water

Vocabulary: (optional)

- Circular motion
- Centripetal acceleration

Procedures:

- Put enough water in the bucket to cover the bottom and make depth of water about 1” deep.
- Ask the students what would happen if you swing the water around (like a softball pitch).
- Swing the bucket and observe that if it done fast enough, the water stays in the bucket, even above your head.

End of activity questions to ask: (optional)

- What made the water stay in the bucket?