

**Topic:** Investigating the relationship between the radius and the angular velocity of a rubber bung whirled in a circular path.

The purpose of this experiment is to evaluate the physics theory that connects the radius of the bung around the center (R) and its period of rotation (T) (Metal pipe). The equation represents this situation.

$$T = \sqrt{\frac{4\pi^2 m}{Mg}} \sqrt{r}$$

**Where:**

**M** is the mass of the mass stack in kg (0.15kg)

**m** is the mass of the rubber bungs in kg (0.0217kg)

**T** is for the time of one rotation in seconds

**R** is the horizontal is the horizontal radius of rotation in meters

**g** is strength of gravity (9.8 N kg<sup>-1</sup>)

### Method

1. Before getting started with the experiment make sure the scale is properly adjusted before starting the experiment using the rubber stopper. This means making sure that the balance is level and unaffected by any external elements, such as vibrations or air currents, and that the scale is set to zero.
2. The rubber stopper should be carefully placed onto the scale. Make sure the stopper is positioned evenly across the scale and is not in contact with any other items. The rubber stopper's weight will be shown on the scale in grams but you will then have to convert units into kg.
3. Next gather a 150g mass (0.15kg), some string, a metal pipe, and an end-mounted rubber bung (21.7g) 0.0217kg
4. You will next secure one end of the string to the rubber bung. The length of the string for the Whirling a rubber bung experiment can vary, but it should be long enough to allow the rubber bung to be whirled around in a horizontal circle without touching the ground or any nearby objects. Generally, depending on the size of the rubber bung and the radius of the circular path being used in the experiment
5. You will next attach the mass weights onto the other end of the string (0.15kg) While holding the string tight, grip the other end of the string (part where the mass is) and start rotating the rubber bung in a horizontal circle. Make sure that the bung stays level with the ground. (For accurate and dependable results, it is crucial to make sure that the rubber bung's weight is constant across different trials.)
6. The next step is to apply tape to the string; in some cases, it can be used to mark a specific location on the string for the Whirling a Rubber Bung experiment's measurement needs. Mark with a tape measure every 10 cm, 20 cm, 30 cm, 40 cm and so on...

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**Annelies Wilder-Smith**



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