

2. Students will use the information they have recorded to calculate rate. Explain to students that rate is amount over time. For example if $\frac{1}{4}$ cup of water flows through the coffee filter in 30 seconds, the rate would be $\frac{1}{4}\text{cup}/30\text{ seconds}$ or $\frac{1}{2}$ cup/ minute.
3. Have students calculate the rate for each filter material. You may also want to have groups convert each rate to a "per minute" rate or a "per second" rate.

Reflections:

To be sure students understand the concept, have them apply the rate information they've determined for each filter material. For example, try asking:

- **How much water could flow through each material in two minutes?**
- **If you had $\frac{3}{4}$ cup of water, how long would it take the water to flow through each material?**

Assessment:

- Observe class discussion.
- Review student calculations based on reflection questions.