

Additional Teacher Resources: Example Questions

1. Asking Questions and Defining Problems.

What is the exact dry time (nearest second) for one full and complete spritz of water?

2. Developing and Using Models

- Capturing a water sample from the spray bottle:
 - Spray the water into a paper towel
 - Spray the water into a test tube
 - Both scales require a measurable of mass of at least 1.0 grams.
 - Students will need use their spray bottles multiple times to find the average amount of water expelled.

3. Planning and Carrying Out Investigations

- Students will need to collect the supplies required and describe the techniques they will use to collect the needed data. The data required is the mass of one spritz of water.
- Once the mass of water is known, the units must be converted into standard internationals.
- Finally using the known conversions factors convert the mass of the water into dry times.

4. Engaging in Argument from Evidence

The measured mass of one spritz of water:

The calculated dry time for your group:

- Group 1: (Names)
 - This group's measured mass of one spritz of water:
 - This group's calculated dry time for your group:
 - Provide strengths and weakness of this group's argument from evidence.
- Group 2: (Names)
 - This group's measured mass of one spritz of water:
 - This group's calculated dry time for your group:
 - Provide strengths and weakness of this group's argument from evidence.