

Fire Science Laboratory

Cone Review

The purpose of this form is to provide a way for students to review their understanding of the Cone Calorimeter. This information can be found in the [Cone Calorimeter Standard Operating Procedures](#). This form is to be submitted with the [Sign-up and Summary Sheet](#).

General

1. Why is the Apparatus called a Cone Calorimeter?

2. How do you properly prepare a sample?

3. The Cone Calorimeter analyzes the gas stream for what parameters?

4. What filtration or modification is made to the gas stream before it reaches each analyzer?
Why?

Theory

12. How does the Cone measure heat release rate?

13. How is oxygen consumption measured?

14. How is smoke production measured?

15. What levels of incident heat flux can be generated? How uniform is it?

16. How do a thermocouple and heat flux gage work?
