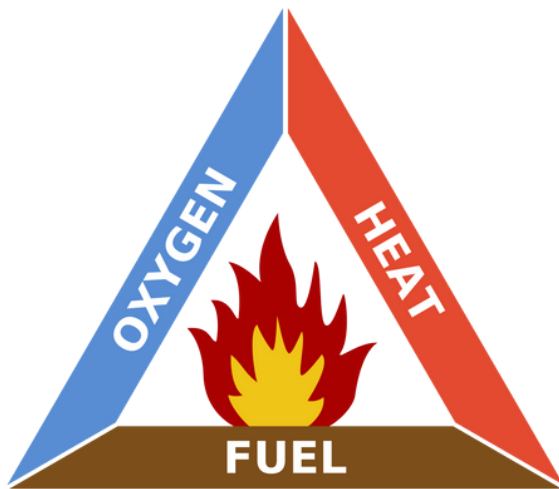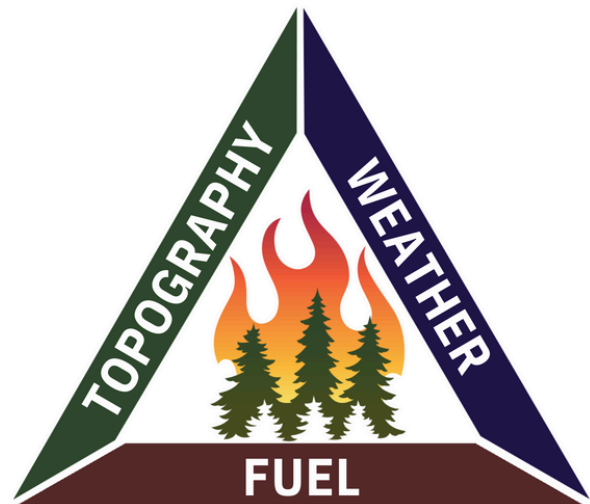# Matchstick Forest

Today you are going to build and burn matchstick "forests" to model how forests burn. This will help you investigate the different factors that impact wildland fires.

Watch the pre-made forest model burn. Record your observations here.

Fire Triangle and Fire Behavior Triangle

Fire Triangle

Fire Behavior Triangle

Which parts of these fire triangles did you observe? Be specific.

Take one of the Fire Challenge cards. Work with your lab group to create a model that will test this fire behavior.

Watch the different models burn. Record your observations and explain how these illustrate the different parts of the Fire Behavior Triangle.

These models illustrate how fire spreads in a forest. How do you think warmer, drier climates affect fire behavior in our forests? Which components of the Fire Behavior Triangle do you think are most affected?

Fire spreads through three heat transfer methods: Convection, Conduction, and Radiation. Explain which of these you observed today in the models. Be specific.

Heat Transfer

Convection
energy transferred by molecular motion

Conduction
energy transferred by direct contact

Radiation
energy transferred by electromagnetic waves

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