

NGSS Lesson Plan – Fire Extinguishment

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Contextual Categories

Unit or Lesson Title	Fire Extinguishment
Course and Grade Level	Fire Science I, grades 11 and 12
Topic/Theme/Nature of Investigation	What is fire? A discovery of fire from a technical (scientific) perspective and how fire develops (behaves) differently in compartments or structures (buildings, vehicles, vessels or aircraft) than in open, unenclosed areas (forest or wild land), including the appropriate extinguishing methods for each.
Assessment Activity, Experiment, Demo, etc. > Attach handouts	Scenario-based exercises. Field demonstrations and practice (drill).
NGSS Performance Expectation(s) and Code	HS-PS1-2 HS-PS1-4 HS-PS1-5 HS-PS3-4
DIMENSION 1 Component: SEP	Developing and Using Models: Use a model to predict the relationships between systems or between components of a system.
DIMENSION 2 Component: CCC	Energy and Matter: Changes of energy and matter in a system can be described in terms of energy flows into, out of, and within that system.
DIMENSION 3 Component: DCI	Chemical Reactions: The fact that atoms are conserved, together with the properties of the elements involved, can be used to prescribe and predict chemical reactions.
CCSS and Code > When applicable to the investigation	SL.11-12.5
Other: District correlation, etc.	National Standard: <i>NFPA 1001, 5.3.8, NFPA 1001, 5.3.11, NFPA 1001, 5.3.12, NFPA 1001, 5.3.16</i>