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### 6 Keywords Searchable for Class Videos

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## Keywords to video segments for Fire & Ice course (Bauer, UNH, 2015)

absolute zero	conservation	fire-walking
absorption	consumer product	first aid
activation barrier	control of variables	first law of thermodynamics
aerosol spray	convection	freeze drying
air conditioner	cooling curve	friction
ambassador	creativity	
analogic reasoning	critical thinking	gas
animals	current	gas laws
anticipation		global warming
application	data analysis	grade orientation
argument structure	deflategate	graphing
argumentation	defrosting	gravity
Asimov	demonstration	group assessment
assessment	density	group assignment
ATP	discussion	group roles
attitudes	dissipation	
Avogadro's Law	dissolving	Haber process
	dry ice	hands-on
battery	Dunking Bird	hand warmer
biology		heat
bonds	Eavesdropping	heat capacity
Boyle's Law	economics	heat engine
buy-in	electron transfer	heat transfer
	endothermic	heating/cooling curve
Charles' Law	energy	history
chemically-induced thermal	energy diagram	home windows
sensation	entropy	homework
chemistry	environment	hot pack
choice	evaporation	hydroelectric
class discussion	Evaporative cooling	hydrogen
class reflection	evidence	hypothesis
closure	exothermic	
clothing	experiment	ice-breaker
coal combustion	experimental control	ice cream
cold	experimental reports	ice hotels
cold pack	experiment design	intermolecular forces
collaboration points	exploration	introduction
combustion	explosion	instructor reflection
communication	extent vs rate	investigation
compressibility		
concept invention	feedback	jigsaw model
conduction	fever	Joule
confidence	fire	
connections	fireproof	kinetic energy

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kinetic molecular theory	polarity	sports
kitchen	poster	standardization
	poster session	standing assignment
latent heat	potential energy	status report
lava lamp	prediction	stars
learning cycle	presentation	stoichiometry
lecture	pressure	structure
light	process assessment	student background
limiting reagent	properties	summative assessment
listing		syllabus
liquid nitrogen	question bank	
	questions	team action
mass		team reports
metal	radiation	temperature
misconception	rationale	test
model development	reaction	theory
molecular models	readings	thermal conductivity
molecular motion	readings notes	thermal equilibrium
motivation	receptors	thermal sensation
multitasking	recorder reports	thermometer
	reflector	time filler
names	refrigerator	time management
natural gas	replication	
nature of science	report out	universe
neuroscience	representation	useful work
New Hampshire	research	
Nitrate	reticence	vacuum
nitroglycerine	roles	vasodilution
Nobel	round robin	video
	Rumsford	visualization
observation		
oxidation	safety	wait time
	safety monitor	war
particulate nature of matter	scaffolding	waste heat
penguins	science fiction	work
personal information	Seebeck effect	writing
phase	second law	written work
phase change	self-doubt	
phase diagram	sense-making	19 <sup>th</sup> century ice production
pHET	sign-posting	
photosynthesis	simulation	
physiology	Socratic conversation	
pictures	solving equation	
planets	space station	