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Fire and Ice

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# 3 Table of Contents for Class Video Segments

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Fire & Ice: Table of Contents for Daily Class Video Segments

| Major Action or Purpose of segment | |
|---|---|
| Content/Topic first; then pedagogic focus | |
| | |
| Day 1 – Jan 20 | Introduction to inquiry. Temperature perception. |
| 1.1 First Day: Modeling, Setting expectations | |
| 1.2 First Day: Syllabus review, Student centered | |
| 1.3 First Day: Syllabus review, Student centered | |
| 1.4 First Day: Syllabus review, Video documentation | |
| 1.5 Perception of temperature: Hands-on exploration | |
| 1.6 Perception of temperature: Team discussion | |
| 1.7 Perception of temperature: Question generation | |
| 1.8 Nature of science | |
| | |
| Day 2 – Jan 22 | Sixteenth Century Ideas. Physiology of temperature sensation. |
| 2.1 Historical ideas of heat and temperature: Instructions | |
| 2.2 Historical ideas of heat and temperature: Readings discussion | |
| 2.3 Historical ideas of heat and temperature: Readings discussion | |
| 2.4 Historical ideas of heat and temperature: Readings discussion | |
| 2.5 Historical ideas of heat and temperature: Readings discussion | |
| 2.6 Physiology of temperature sensation: Instructions | |
| 2.7 Physiology of temperature sensation: Reading jigsaw | |
| 2.8 Physiology of temperature sensation: Reading jigsaw | |
| 2.9 Physiology of temperature sensation: Reading jigsaw | |
| | |
| Day 3 – Jan 29 | The thermometer. Chemothermal sensation. |
| 3.1 Housekeeping | |
| 3.2 Historical development of thermometer: Readings discussion | |
| 3.3 Historical development of thermometer: Reporting | |
| 3.4 Physiology of temperature sensation: Reading jigsaw | |
| 3.5 Neural response to temperature change or chemical exposure: Poster preparation | |
| 3.6 Neural response to temperature change or chemical exposure: Poster preparation | |
| 3.7 Liquid nitrogen: Hands-on exploration | |
| 3.8 Liquid nitrogen: Hands-on exploration | |
| | |
| Day 4 – Feb 03 | Chemothermal sensation. Properties of gases. |
| 4.1 Housekeeping, Assessment | |
| 4.2 Neural response to temperature change or chemical exposure: Presentation | |
| 4.3 Neural response to temperature change or chemical exposure: Presentation | |
| 4.4 Neural response to temperature change or chemical exposure: Self-assessment | |
| 4.5 Neural response to temperature change or chemical exposure: Closure | |
| 4.6 Particulate gas simulation: Instructions | |
| 4.7 Particulate gas simulation: Hands-on exploration | |
| 4.8 Particulate gas simulation: Hands-on exploration | |
| | |
| Day 5 – Feb 05 | Simulation of articulate model for gases. Kinetic Molecular Theory |
| 5.1 Particulate gas simulation: Team discussion | |
| 5.2 Particulate gas simulation: Team discussion | |
| 5.3 Kinetic molecular theory: Model development | |
| 5.4 Kinetic molecular theory: Model development | |

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