Oregon and National Science Content Standards: Grade 7

Curriculum Activities	Oregon Science	National Science
	Content Standards	Content Standards
Week 4: Dr. Pepper and Mentos Demonstration, Magic Candle Demonstration	7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation.	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 5: Introduction to Science Inquiry: Cars and Ramps	 7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 7.3S.2 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
	Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.	
Week 6: Writing Procedures	 7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 7: "Comeback Can" Races Week 8: More Group Investigations	 7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 7.3S.3 Evaluate the validity of scientific explanations and conclusions based on the amount and quality of the 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 9: Managing Data and Bar Graphs Week 10: Managing Data and Line Graphs	 7.3S.1 Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific

	7.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.	inquiry
Week 11: Investigative Questions Week 12: Brainstorming Topics and Generating Questions Week 13: Polishing Questions Weeks 17 & 18: Investigation Design	 7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 7.4D.1 Define a problem that addresses a need and identify constraints that may be related to possible solutions. 7.4D.2 Design, construct, and test a possible solution using appropriate tools and materials. Evaluate the proposed solutions to identify how design constraints are addressed. 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 20: Preliminary Data Collection Week 21: Developing a Data Format and Display	7.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 22: Investigations Begin	 7.3S.1 Based on observations and science principles, propose questions or hypotheses that can be examined through scientific investigation. Design and conduct a scientific investigation that uses appropriate tools and techniques to collect relevant data. 	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 24: Transforming Investigations into Displays Week 25: Work on Display Boards Weeks 27 & 28: Work Continues on Investigations and Displays	7.3S.2 Organize, display, and analyze relevant data, construct an evidence-based explanation of the results of an investigation, and communicate the conclusions including possible sources of error.	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry
Week 26: Analyzing Results	7.3S.3 Evaluate the validity of scientific explanations and conclusions based on the amount and quality of the evidence cited.	 NS.5-8.1 As a result of activities in grades 5- 8, all students should develop: Abilities necessary to do scientific inquiry Understandings about scientific inquiry