

**Learning to Fly: The Wright Brother's Adventure**

**2009 Science Revised June 2010**

**Learning Standards**

**Washington Science Revised June 2010**

**Grades 6-8**

<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	WA	SCI.6-8.2.6-8 INQA.1	Generate a question that can be answered through scientific investigation. This may involve refining or refocusing a broad and ill-defined question.
The Society	WA	SCI.6-8.2.6-8 INQB.1	Plan and conduct a scientific investigation (e.g., field study, systematic observation, controlled experiment, model, or simulation) that is appropriate for the question being asked.
The Society	WA	SCI.6-8.2.6-8 INQB.3	Work collaboratively with other students to carry out the investigations.
The Society	WA	SCI.6-8.2.6-8 INQG.1	Prepare a written report of an investigation by clearly describing the question being investigated, what was done, and an objective summary of results. The report should provide evidence to accept or reject the hypothesis, explain the relationship between two or more variables, and identify limitations of the investigation.
Wright Brothers: 1900 Glider	WA	SCI.6-8.2.6-8 INQC.1	Communicate results using pictures, tables, charts, diagrams, graphic displays, and text that are clear, accurate, and informative.
Wright Brothers: 1900 Glider	WA	SCI.6-8.3.6-8 APPF.2	Present the recommended design using models or drawings and an engaging presentation.
Wright Brothers: 1901 Glider	WA	SCI.6-8.2.6-8 INQC.1	Communicate results using pictures, tables, charts, diagrams, graphic displays, and text that are clear, accurate, and informative.
1903: Powered Flight	WA	SCI.6-8.2.6-8 INQB.1	Plan and conduct a scientific investigation (e.g., field study, systematic observation, controlled experiment, model, or simulation) that is appropriate for the question being asked.
1903: Powered Flight	WA	SCI.6-8.2.6-8 INQC.1	Communicate results using pictures, tables, charts, diagrams, graphic displays, and text that are clear, accurate, and informative.
1904: Improvement in Dayton	WA	SCI.6-8.2.6-8 INQC.1	Communicate results using pictures, tables, charts, diagrams, graphic displays, and text that are clear, accurate, and informative.

1904: Improvement in Dayton	WA	SCI.6-8.2.6-8 INQG.1	Prepare a written report of an investigation by clearly describing the question being investigated, what was done, and an objective summary of results. The report should provide evidence to accept or reject the hypothesis, explain the relationship between two or more variables, and identify limitations of the investigation.
1905: Complete a Flight at Last	WA	SCI.6-8.3.6-8 APPD.1	Define a problem that can be solved by technological design and identify criteria for success.
1905: Complete a Flight at Last	WA	SCI.6-8.3.6-8 APPF.2	Present the recommended design using models or drawings and an engaging presentation.
<b>Learning to Fly: The Wright Brother's Adventure</b>			
<b>2009 Science Revised June 2010</b>			
<b>Learning Standards</b>			
<b>Washington Science Revised June 2010</b>			
<b>Grades 9-12</b>			
<b>Activity/Lesson</b>	<b>State</b>	<b>Standards</b>	
The Society	WA	SCI.9-12.2.9-12 INQA.1	Generate and evaluate a question that can be answered through a scientific investigation. Critique questions generated by others and explain whether or not the questions are scientific.
The Society	WA	SCI.9-12.3.9-12 APPA.2	List questions that scientists investigate that are stimulated by the needs of society (e.g., medical research, global climate change).
Wright Brothers: 1900 Glider	WA	SCI.9-12.1.9-12 SYSB.2	Represent the system with a diagram specifying components, boundaries, flows, and feedbacks.
1903: Powered Flight	WA	SCI.9-12.3.9-12 APPB.1	Work collaboratively with other students to generate ideas for solving a problem. Identify criteria and constraints, research the problem, and generate several possible solutions.
1903: Powered Flight	WA	SCI.9-12.3.9-12 APPC.1	Choose the best solution for a problem, create a model or drawing of the final design, and devise a way to test it. Redesign the solution, if necessary, then present it to peers.