



### Sample Project Calendar—Weeks One & Two: Rocketry Project

Week #1	Activity
Monday	<p>Welcome &amp; Attendance.</p> <p>Partners for Rocket Design.</p> <p>Begin Design and Build of balsa wood rocket #1: distribute materials, engine size &amp; rocket requirements, safety basics, begin.</p> <p>Cleanup &amp; Break</p> <p>Computer login/send first email/begin blog with first post.</p> <p>Blog Post #1: Who are you as a scientist? What areas of science interest you most?</p> <p>Post a photo and written response on your blog.</p>
Tuesday	<p>Welcome &amp; Attendance</p> <p>Complete First Build of Balsa Rocket #1: All groups complete rocket for Launch Day! Rocket measurements: height, weight, diameter, etc.</p> <p>Share Rockets—design, construction successes &amp; challenges, etc. with other groups.</p> <p>Classroom responsibilities</p>
Wednesday	<p>Launch day #1</p> <p>Launch first rockets, video &amp; photograph all rockets, partners &amp; launches</p> <p>Classroom responsibilities</p> <p>Written Reflection:</p> <p>What happened to your rocket? How did your rocket's motion compare to your hopes and expectations?</p>
Thursday	<p>Combustion</p> <p>Blog Post #2: What did you learn about rocket science from designing, building and launching your first rocket?</p> <p>Post a photo of you with your rocket, a video of the launch, and a written response to the question.</p>
Friday	<p>Engineering &amp; Design lesson: Fundamental engineering design practices</p> <p>Revise rocket designs for balsa rocket #2</p> <p>Detailed rocket drawings &amp; measurements for rocket #2</p>

To learn more about this resource and others, visit [hightechhigh.org](http://hightechhigh.org) and [gse.hightechhigh.org](http://gse.hightechhigh.org)

	Begin build.
Week #2	
Monday	<i>Labor Day—No School</i>
Tuesday	Build balsa rocket #2 All groups complete rocket for Launch Day #2! Rocket measurements: height, weight, diameter, etc. How does your completed rocket measure up to your designs, blueprints, revisions and plans?
Wednesday	2nd Launch Day. Written reflection: What can you explain about your rocket's motion, based on what you see in your video, what you saw at the launch, and/or your other observations and notes?
Thursday	Theories of Motion—student presentations based on rocket experiences, reflections and blog posts. Blog Post 3 Post: One minute long video showing the process of building the rocket and the motor finishing with at least one launch video (each partnership can use the same video) Answer the following: What have you learned about rocketry in the past two weeks? What questions do you still have about rocketry? What was your initial hypothesis (personal theory) for combustion? In your own words, what is the scientific explanation (theory) for combustion? What did you learn about combustion? How is combustion significant in rocketry? What questions do you still have?
Friday	Begin large-scale rocket designs.