JSS 2-Week Syllabus

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Day	Topics	Activities/Tasks	Resources
1	Intro to JSS	View introductory JSS slideshow/video	Introductory JSS slideshow/video
	Design Process	Briefly describe components of a solar car	 The Design Process
	Vehicle Design	 Introduce the design process 	
2	Basic Components	 Discuss vehicle design and components 	 Basics of Model Solar Car Design
	of a Solar Car	 Form working groups and begin 	lesson
		brainstorming for car concepts	
3–4	Applied STEM	 Discuss STEM principles relevant to car 	 Investigating Model Car Materials
	Concepts	design: friction, aerodynamics, torque, etc.	lesson
	1	Groups develop car designs	
5	Solar Power	Discuss principles of solar power and	Understanding Solar Energy lesson
·		photovoltaics	
6–8	Design Review &	Groups present their designs and explain	Design Review lesson
00	Car Construction	choices	Design Review lesson
	Car Construction	Groups begin constructing their cars	
9	Design Tests &		
9	5	Groups test their cars and make adjustments	
4.0	Optimization	to optimize performance	
10	Final Race	Race cars to test performance	Setting Up a Solar Car Race
	& Debrief	 Discuss process and reflect on lessons 	Teacher's Guide PowerPoint (in

resource links list)

learned