Online Supplemental Materials

# *(in order of appearance in text)*

* YouTube video: “Galileo and Motion,” [www.youtube.com/watch?v=MAvPlHAfGbQ](http://www.youtube.com/watch?v=MAvPlHAfGbQ)
* Article: “Sleep-Deprived Bees Do Weirder Waggle Dances,” [www.wired.com/2014/11/berrett-klein-honeybees](http://www.wired.com/2014/11/berrett-klein-honeybees)
* YouTube video: “The Waggle Dance,” [www.youtube.com/watch?v=-7ijI-g4jHg](http://www.youtube.com/watch?v=-7ijI-g4jHg)
* Article: “Bristlebot: A Tiny Directional Vibrobot,” [www.evilmadscientist.com/2007/bristlebot-a-tiny-directional-vibrobot](http://www.evilmadscientist.com/2007/bristlebot-a-tiny-directional-vibrobot)
* Possible videos to use for project introduction:
	+ Jafflechutes (food delivery by parachute), <http://jafflechutes.com>
	+ Food relief program: “Australia, Japan, U.S. Drop Food, Toys on Pacific Islands,” [www.apnews.com/f4f32175842c4655a5331c08eeef500](http://www.apnews.com/f4f32175842c4655a5331c08eeef500)
* YouTube video: “How to Go From Mathematical Design to Physical Design on 05,” <https://youtu.be/jtjQT_eqqOs>
* Article: “Heat Management and Layering System” from the Appalachian Mountain Club, Boston Chapter, [www.hbbostonamc.org/docs/winterclothes.html](http://www.hbbostonamc.org/docs/winterclothes.html)
* YouTube video: “Landfill Harmonic Amazing and Inspirational,” [www.youtube.com/watch?v=sJxxdQox7n0](http://www.youtube.com/watch?v=sJxxdQox7n0)
* PhET-Geometric Optics, <https://phet.colorado.edu/en/simulation/geometric-optics>
* Article: “This $9 Cardboard Bike Can Support Riders Up to 485lbs,” [www.fastcodesign.com/1670753/this-9-cardboard-bike-can-support-riders-up-to-485lbs](http://www.fastcodesign.com/1670753/this-9-cardboard-bike-can-support-riders-up-to-485lbs)
* YouTube video: “This $9 Cardboard Bike Can Support Riders Up To 485lbs Co Design business + innovation + design,” [www.youtube.com/watch?v=0Lwox-IAeGI](http://www.youtube.com/watch?v=0Lwox-IAeGI)
* Article: “The Invisible Bike Helmet: An Airbag On the Go,” <https://techcrunch.com/2012/08/15/invisible-bike-helmet>
* Article: “Sleep Deprived Bees Do Weirder Waggle Dances,” [www.wired.com/2014/11/berrett-klein-honeybees](http://www.wired.com/2014/11/berrett-klein-honeybees)