

This is an example course: This outline is designed to be flexible and changed to meet the needs of individual classrooms					
Week	Material to be covered	Online activities	Assignments Due	Video Reviews	
1	Guitar parts Overview, shop safety, guitar cost	Cost estimate, guitar anatomy activity	Guitar Kit price list and Online Anatomy quiz		
			Online Anatomy Quiz Link		
2	CAD tools for headstock design Select Bodies , start headstock design	Tolerances in Engineering activity	Guitar Video Review — Body sculpting Headstock design	<iframe <br="" height="315">src="http://www.youtube.com/e mbed/1gmqLbRAA8Y" frameborder="0" width="560" allowfullscreen=""></iframe> >	
			Online Tolerances Quiz Link		
3	Body modification, Finish headstock design	Guitar Geometry	Video File review – Wood repair Video File review – Swirl dipping from down under Guitar Body shapes - Research project	<iframe <br="" height="315">src="http://www.youtube.com/e mbed/gAxKsT2ejvw" frameborder="0" width="560" allowfullscreen=""></iframe> <iframe <br="" height="315">src="http://www.youtube.com/e mbed/BVc6kdJF1PE" frameborder="0" width="560" allowfullscreen=""></iframe>	
			Online Guitar Geometry Quiz Link		
4	Swirl painting chemistry – Importing Case Study Online CAD/CAM activity	Online CAD/CAM activity	Research paper - Case Study Video File review — Hole Drilling	<iframe <br="" height="315">src="http://www.youtube.com/e mbed/_KLrOfYpwyU" frameborder="0" width="560" allowfullscreen=""></iframe>	
			Online CAD/CAM Activity Quiz Link		



5	Neck assembly Neck fabrication Material Properties of Wood for Guitars activity	Material Properties of Wood for Guitars activity	Video File review – Neck Assembly Video 1, 2, 3	<iframe <br="" width="560">height="315" src="http://www.youtube.com/e mbed/pVJ1LvmTIJk" frameborder="0" allowfullscreen=""></iframe> iframe width="560" height="315" src="http://www.youtube.com/e mbed/yV5hNQ6dY6w" frameborder="0" allowfullscreen=""> <iframe <br="" width="560">height="315" src="http://www.youtube.com/e mbed/oSmm-HINqi0" frameborder="0" allowfullscreen=""></iframe>
			Online Material Properties of Wood for Guitars activity Quiz Link	
6	Neck fretting and math behind fret positions, Neck and Body finishes	Fret Spacing Calculation	Video File review – Neck Assembly Video 4 Video File review – Painting	<iframe <br="" height="315">src="http://www.youtube.com/e mbed/GjXEZpofyuI" frameborder="0" width="560" allowfullscreen=""></iframe> <iframe <br="" width="1280">height="720" src="//www.youtube.com/embed/ oNh-DB-DF84" frameborder="0" allowfullscreen></iframe>
			Online Fret Spacing Calculation Quiz Link	
7	midterm		Parts and Fretting locations	
8	Tuning and gear ratios Guitar setup		Tuning and gear Ratios activity	



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	activity – Bring in a guitar and strings			
9	Soldering and electronics	Online Electronics circuit path and pictorial activity	Video File review — Soldering	<iframe <br="" width="420">height="315" src="http://www.youtube.com/e mbed/POau0dF8vg8" frameborder="0" allowfullscreen=""></iframe>
			Online Electronics circuit path and pictorial activity Quiz Link	
10	Hardware Installation Threaded Fasteners activity	Threaded Fasteners activity	Video File review Hardware Installation	<iframe <br="" height="315">src="http://www.youtube.com/e mbed/Bp_RK6O45MQ" frameborder="0" width="560" allowfullscreen=""></iframe>
			Online Threaded Fasteners activity Quiz Link	
11	Hardware Installation Pickup assembly Scale Length, Frequency, & String Tension activity	Online Scale Length, Frequency, & String Tension activity	Video File review – Assembling Pickups <mark>SOUND CHECK BODY!</mark>	<iframe <br="" width="640">height="360" src="http://www.youtube.com/e mbed/0qBOHdUr64w" frameborder="0" allowfullscreen=""></iframe>
			Online Scale Length, Frequency, & String Tension activity Quiz Link	
12	Neck attachment Online Guitar Necks: The Compression and Tension of a Neck activity	Online Guitar Necks: The Compression and Tension of a Neck activity	Video File review — Buffing Guitars	<iframe <br="" width="1280">height="720" src="//www.youtube.com/embed/ MTtTnOaw5xI" frameborder="0" allowfullscreen></iframe>
			Online Guitar Necks: The Compression and Tension of	



			a Neck activity Quiz Link	
13	Intonation basics	Intonation activity		
			Online Intonation activity Quiz Link	
14	Final assembly , Stings, String Nut Setup of Guitars	Setup activity		
			Online Setup activity Quiz Link	
15	Class Photo, final intonation		Final Setup	
16	Final guitar evaluation		Final guitar evaluation - Rubric	