Circuit Project

	Additional work needed	Somewhat satisfactory	Good quality	Excellent - professional work	Score
Title, purpose, and source (10 pts.)	(5 pts.) *Purpose and source are vague.*	(7.5 pts.) *Purpose or source somewhat vague.*	(10 pts.) *Purpose and source are clear.*		
Schematic (10 pts.)	(5 pts.) *Lines are crooked, components are missing or incorrect. Connections ambiguous.*	(7.5 pts.) *Lines are mostly straight. Most components correct. Connections clear.*	(10 pts.) *Lines straight. Components and connections all correct.*	(12.5 pts.) *Schematic is computer or calligraphic quality.*	
Circuit complexity (10 pts.)	(5 pts.) *<7 components 0-1 chip/transistor*	(7.5 pts.) *7-12 components 0-1 chip/transistor*	(10 pts.) *>12 components >1 chip/transistor*	(12.5 pts.) *>20 components >3 chip/transistor*	
Originality (5 pts.)	(1 pt.) *Circuit is from kit.*	(3 pts.) *Circuit is from book or web site with no mods.*	(5 pts.) *Circuit from book or web with one or more mods.*	(7.5 pts.) *Original circuit or from book or web with many mods.*	
Overall aesthetic (5 pts.)	(1 pt.) *Design needs to be refined: circuit or packaging made more appealing.*	(3 pts.) *Solid but basic project.*	(5 pts.) *Project appeals to or impresses other students.*	(7.5 pts.) *Excellent appeal. Everyone wants one.*	
Workmanship (box) (10 pts.)	(5 pts.) *Loose components in or on box. Box marked up due to assembly.*	(7.5 pts.) *Most components tight. Very few marks on box.*	(10 pts.) *Components all tight. Little to no marking on box.*	(12.5 pts.) *Professional package. Looks store bought or unique package.*	
Workmanship (circuit) (20 pts.)	(10 pts.) *Cold solder joints or excessive solder, leads unclipped, board/components burned or discolored.*	(15 pts.) *Leads clipped, most solder joints good, relatively few burn marks.*	(20 pts.) *Solder joints clean, leads clipped, board and components clean.*	(22.5 pts.) *Board looks computer assembled. Solder joints even. No marks on board.*	
Function (20 pts.)	(10 pts.) *Project doesn't work.*	(15 pts.) *Project works partially or intermittently.*	(20 pts.) *Project works as designed.*		
Completion (10 pts.)	(3 pts.) *Project only partially completed or complete but still on breadboard.*	(5 pts.) *Project mostly completed. Incomplete packaging.*	(10 pts.) *Project complete and handed in by the due date.*	(12.5 pts.) *Project complete and turned in a week ahead of time.*	