

Required Items: (Non Consumables Costs and Ordering Information):

Item	Lessons	How many are needed per class	Directions	Possible vendor Item # and details	Cost per item	Other notes	Total \$
OXO Good Grips Turntable, 16-Inch	Lesson 1	1 non-consumable for all classes	Amazon: These three things will be hot glued together so that the used record sits flat on the turntable and in the center of it. If it is off center, scrape off the glue and reset it again.	https://www.amazon.com/OXO-Good-Grips-Turntable-16-Inch/dp/B000QA2H0/ref=lp_3744181_1_9?s=kitchen&ie=UTF8&qid=1482109776&sr=1-9	\$6.97	Buy 2 of these, some have sticky bearings, use the most frictionless one.	\$13.94
Hot glue gun	Lesson 1	1 of these along with the glue sticks		https://www.amazon.com/dp/B01LRBB51?psc=1	\$9.99		\$9.99
Used Record(s)	Lesson 1	3 in case one gets too scratched up)		Goodwill or resale shop		~\$1.99	Buy 3 of these
Aux cord	Lesson 2	5 for a class - cut in half to makes 10 cords.	Amazon: Kensington 4ft/ 1.2m Nylon Braided 3.5mm Auxiliary Audio Cable - Black (K39202US)	https://www.amazon.com/Kensington-Nylon-Braided-Premium-Auxiliary/dp/B0031U1ATG	\$5.99		\$5.99
tuning fork	Lesson 2	Only one needed	Order from Vernier	https://www.amazon.com/Topro-Standard-Stainless-Steel-Tuning/dp/B00VWFY12/ref=sr_1_5?s=toys-and-games&ie=UTF8&qid=1482110000&sr=1-5&keywords=tuning+forks	\$5.19		\$5.19
Motion detector	Lesson 5 & 6	Only one needed	Go!Motion Vernier motion detector	https://www.vernier.com/products/sensors/motion-detectors/go-mot/	\$119		\$119
Wood trim (thin ¼ inc)	Lesson 5 & 6	96 inch section cut into two parts a 42" and a 54" section	Home Depot: WM 267 1/4 in. x 1-3/8 in. x 96 in. Pine Lattice Moulding	http://www.homedepot.com/p/Alexandria-Moulding-WM-267-1-4-in-x-1-3-8-in-x-96-in-Pine-Lattice-Moulding-0W267-20096C/205917028?gclid=CjwKEAIA7eICBRDlp8uF6ezPnjoSIAAPE7MQIQW4h0ntb83ZxQX_IBFoRJEKsA1Mmd-lt-rFEIw8BoC6XLw_wcB&gclid=aw.ds	\$6.57	Double the order of these in case they break	\$13.14
Hand spring clamp	Lesson 5 & 6	Use two to hold down the stick.	Home Depot: 2 2 inch spring clamp.	http://www.homedepot.com/p/HDX-2-in-Spring-Clamp-80002/100027346	\$0.99		\$1.98
Alligator clips	Lesson 8	Get 2 packs of these	Amazon: SE TL10 10-Piece Test Lead Set with Alligator Clips	https://www.amazon.com/SE-TL10-10-Piece-Alligator-Clips/dp/B0002KRABU/ref=sr_1_1?ie=UTF8&qid=1482243830&sr=8-1&keywords=alligator+clips	\$6.91		\$13.82
Magnetic wire	Lesson 8	10 ft. per speaker built (reuse the coils made from year to year	Amazon: Remington Industries 28SNSP.25 28 AWG Magnet Wire, Enameled Copper Wire, 4 oz., 0.0135" Diameter, 507' Length, Red	https://www.amazon.com/Remington-Industries-28SNSP-25-Enameled-Diameter/dp/B00153B2TC/ref=sr_1_5?ie=UTF8&qid=1482243222&sr=8-5&keywords=magnetic+wire	\$7.99		\$7.99
Neodymium magnets	Lesson 8		Home Depot: Rare Earth 1/2 in. x 1/8 in. Disc Magnet (14-Pack)	http://www.homedepot.com/p/Magcraft-Rare-Earth-1-2-in-x-1-8-in-Disc-Magnet-14-Pack-NSN0802/204721330	\$12.99		\$12.99
Sandpaper	Lesson 8	Use for stripping the magnetic wire	Home Depot: 3-2/3 in. x 9 in. 100-Grit Medium Garnet Sandpaper (6 Sheets-Pack)	http://www.homedepot.com/p/3M-3-2-3-in-x-9-in-100-Grit-Medium-Garnet-Sand-Paper-6-Sheets-Pack-19037-20-CC/202563277?gclid=CjwKEAIA7eICBRDlp8uF6ezPnjoSIAAPE7MFNZfC1jjVnH-ZsQK8c5dYFW030_43zKqCpJHHg9fPBoCuH7w_wcB&gclid=aw.ds	\$4.27		\$4.27
2 drums	Lesson 15		Amazon: Remo Fiberskyn Frame Drum, 10"	https://www.amazon.com/Remo-Fiberskyn-Frame-Drum-10/dp/B0002F7KGK/ref=sr_1_9?ie=UTF8&qid=1482243098&sr=8-9&keywords=drums+hand	\$14.36		\$14.36
1 long metal slinky	Lesson 20		Amazon	https://www.amazon.com/Wire-Helix-Wave-Demonstrator-Stand/dp/B06XC6HQML/ref=sr_1_9?ie=UTF8&qid=1490231300&sr=8-9&keywords=long+slinky	\$21.25		\$21.25
1 long plastic slinky	Lesson 20		Amazon	https://www.amazon.com/Original-Slinky-Brand-Ginormous-Rainbow/dp/B01BED5R54/ref=pd_bxgy_21_img_3?encoding=UTF8&pd_rd_i=B01BED5R54&pd_rd_r=XKP1HG6W19ERRKMBA3XH&pd_rd_w=H48Cz&pd_rd_wg=fk7nH&psc=1&refRID=XKP1HG6W19ERRKMBA3XH	\$13.00		\$13.00
Total for Non Consumables							\$292.27

See 2nd page for optional items and other materials that are not part of this budget

Optional Items: (Non Consumables Costs and Ordering Information):

Item	lessons	How many are needed per class	Directions	Possible vendor Item # and details	Cost per item	Other notes	Total \$
Set of 4 tuning forks	Lesson 4	one	Amazon: This set of 4 tuning forks can provide an additional example of how length of a on object influences the pitch of the sound it produces when struck	https://www.amazon.com/Medivibe-Technology-Tuning-Forks-Set/dp/B008AK7OK6/ref=sr_1_2?s=toys-and-games&ie=UTF8&qid=1488739991&sr=1-2-spons&keywords=tuning+forks&psc=1	\$29.67		\$29.67
Glass syringe	Lesson 13	Used for demonstrating the springiness of air.	Syringe Glass 50ml for Refilling Cartridges Solvent & Water Ink Large Format Printer Mimaki Hp Roland	https://www.amazon.com/Syringe-Refilling-Cartridges-Solvent-Printer/dp/B00BJS64KM/ref=sr_1_1?s=office-products&ie=UTF8&qid=1488739201&sr=1-1&keywords=glass+syringe	\$14.68	Get 2 in case one breaks (they are fragile)	\$29.36
Total for Opional Non Consumables.							\$58.99

Materials not part of this budget :

<p>Lesson 1:</p> <ul style="list-style-type: none"> • Sewing needle • Push pin • Hanging file folder • Cardboard paper coffee cup • Tape 	<p>Lesson 2:</p> <ul style="list-style-type: none"> • Music instruments (xylophone and guitar/violin on loan from the music department or from students) 	<p>Lesson 8:</p> <ul style="list-style-type: none"> • Old speaker to take apart (from Goodwill or resale shop) • Sets of plastic and paper cups, bowls, and plates 	<p>Lesson 10:</p> <ul style="list-style-type: none"> • Electronic scale • Volleyball • Air pump & needle • Tuperware tub with lid and/or ziplock bag 	<p>Lesson 11:</p> <ul style="list-style-type: none"> • Vacuum pump and bell jar for lesson 11 (video is provided in place of this) 	<p>Lesson 12:</p> <ul style="list-style-type: none"> • Fish tank or clear tub to fill with water • 2 steel ball bearings or 2 rocks or 2 marbles to bang together 	<p>Lesson 16</p> <ul style="list-style-type: none"> • Salt
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