

The DNA Files:

Workshops and Activities



The DNA Files workshops are an outreach component of *The DNA Files* public radio documentary series produced by SoundVision Productions® with funding from the National Science Foundation, the U.S. Department of Energy, the National Institutes of Health, and the Alfred P. Sloan Foundation.

Workshop Materials

Introduction to DNA Workshop Prep List

Acquire all materials on the Materials List.

Put together a DNA model to use as an example, and cut DNA model pages in half, so that spines are on one piece and rungs on another.

Arrange trays for DNA extraction (4-6 test tubes in a rack, one Ziploc bag containing wheat germ, 4-6 clear plastic cups, 4-6 spoons, 4-6 transfer pipets or eyedroppers plus an additional one, specially marked, for alcohol, a bottle each of rubbing alcohol, dishwashing liquid, and water on each tray).

Mix enough resealable plastic bags for groups of 3 (around 8-10 bags) with four different kinds of beads in the correct proportions (1:4:45:50), this works out to (2:8:90:100) beads/bag.

MATERIALS	QTY	DONE?	VENDOR INFO	PRICE (Before Tax & Shipping)	ACTIVITY #
Intro to DNA Wkshop Teacher Guide	1		print .pdf		
Intro to DNA Wkshop Prep List	1		print .pdf		
Nametags	24-30		Self-provided		
A whiteboard, blackboard or flipchart and pens	1		Self-provided		1
Picture of DNA	1		print .pdf		2
DNA model kits	24-30		print .pdf		2
Small resealable plastic bags	50 (1pk)		www.cvs.com, CVS Zipper Seal Sandwich Bags	\$2.69/50 bags	2, 3, 4
Scissors	24-30		Self-provided (1 per person)		2
Gluestick	24-30		Self-provided (1 per person)		2
Alcohol in a squeeze bottle	4		www.cvs.com, CVS 70% Ethyl Rubbing Alcohol	\$1.99/16 oz.	3
Soap in dropper bottles	4		www.cvs.com, DAWN Ultra Concentrated Dish Liquid Original Scent	\$1.69/11 oz.	3
Plastic or bioplastic cups (clear) (one per person)	50 (1pk)		greeneearthofficesupply.stores.yahoo.net, K4007	\$5.25/50 cups	3, 4

MATERIALS	QTY	DONE?	VENDOR INFO	PRICE (Before Tax & Shipping)	ACTIVITY #
Plastic or bioplastic teaspoons	50 (1pk)		greeneearthofficesupply.stores.yahoo.net, K1661	\$4.25/50 spoons	3
Paper towels	1 roll		greeneearthofficesupply.stores.yahoo.net, K7122	\$2.50/roll (77.8 sq. ft.)	3
Test tubes	24		Carolina Biologicals, www.carolina.com, 73-1053	\$10.80/24 test tubes	3
Test tube racks	4		Carolina Biologicals, www.carolina.com, 73-1880	\$4.25 each	3
Plastic disposable transfer pipettes	100 (1 pk)		Carolina Biologicals, www.carolina.com, 73-6984	\$4.35/pack of 100	3
Glass stir rods or long plastic coffee stirrers (optional)	24 (2 pks)		Carolina Biologicals, www.carolina.com, 71-1307	\$5.20/pack of 12	3
Wheat germ (unroasted)	1		www.thebetterhealth-store.com, Wheat Germ Natural Raw (Bob's Red Mill)	\$2.29/16 oz.	3
Water in containers (1 per each group of 4-6 participants)			Self-provided		3
Cafeteria trays (1 per 4-6 participants) (optional)			Self-provided		3
Multi-purpose Cleaner (for cleanup afterwards)			Self-provided		3
Example beads (enough for 9 groups)	18		wooden beads, www.shipwreckbeads.com, 10WO158	\$2.75/2 strands of 100pcs	4
	60-70		plastic ovals, www.shipwreckbeads.com, 32PO100	\$2.25/300 pc	4
	810		sparklies, www.shipwreckbeads.com, 8PF200	\$4.25/750 pc	4
	900		"pony" beads (rounded barrels), www.shipwreckbeads.com, 9CP100	\$6.50/1000 pc	4