



a WOW Lab

BLUEPRINT

The Glovely Digestion Model

Shopping List

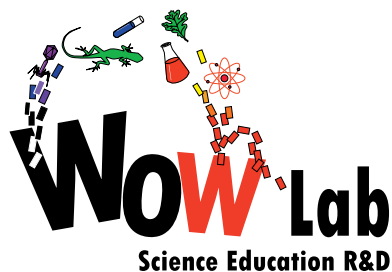
The list is divided into consumable, reusable and alternative items. Quantities listed assume that the activity will be performed once, but with many of the consumable items there will be material left over for additional demonstrations. OB veterinary gloves can be purchased from a local veterinarian or online. Alternative suggestions for items are marked with an asterisk and are listed on page 3. Photos of some items can be found on page 4. The sizes of some of the hardware items are what was available on the day, therefore use whatever combination of materials that are available to build a complete model. The legend below provides details of where the materials can be found:

A = Arts and Crafts Store
 D = Dollar Store
 E = Educational Supplier

G = Grocery Store
 H = Hardware Store
 O = Online

P = Pharmacy
 S = Specialty Store
 U = University

CONSUMABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
clear packing tape	1 roll	D	\$2.00
baking soda	4 tbsp	G	\$2.00 (for 1 kg)
easily degradable cookies (such as Arrowroot)	2	G	\$1.00 (for 1 pack)
vinegar	250 mL	G	\$3.00 (for 4 L)
OB veterinary glove	1	O/S	\$15.00 (for 100)
magnetic tape	3 in.	H	\$3.00 (for a roll)
water	150 mL	—	free
COST OF CONSUMABLE ITEMS:			\$26.00



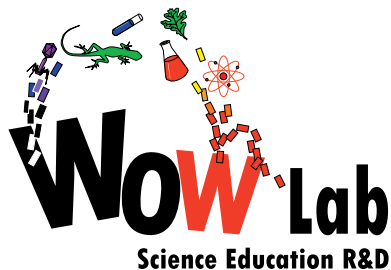
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REUSABLE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
* clamp stand (figure 1)	1	E	\$15.00
* three-pronged laboratory clamps (figure 2)	2	E	\$10.00
small balloon	1	D	\$1.00 (for 20)
party blower	1	D	\$1.00
large balloon	1	D	\$1.00
chip bag clip	2	D	\$2.00
* Plexiglas	24 in. x 16 in.	H	\$20.00
3/4 in. diameter rubber tubing	2 ft.	H	\$2.00
CPVC 1/2 in. 90 degree elbow pipe (figure 3)	1	H	\$1.00
CPVC 1/2 in. straight coupling pipe (figure 4)	1	H	\$0.50
wye fitting (figure 5)	1	H	\$3.00
stainless steel worm gear clamp with an adjustable diameter between 9/16 in. and 2 1/2 in. (figure 6)	1	H	\$1.50
1/2 in. ball valve (figure 7)	1	H	\$8.00
1/2 in. male pipe thread by 1/4 in. barb (figure 8)	1	H	\$3.00
2 in. trap adapter (figure 9)	1	H	\$1.00
2 in. male head adapter reducing to 1/2 in. threaded female adapter (figure 10)	1	H	\$2.00
1/4 in. straight tubing connector (figure 11)	1	H	\$0.50
cardboard paper towel tube	1	—	free
thick elastic band	1	—	free
COST OF REUSABLE ITEMS:			\$72.50

INITIAL COST: \$98.50



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* Refer to Appendix A of *Prep Instructions* for an explanation of how to implement the alternative items. A sheet of acetate may replace the Plexiglas, a broom handle inserted into a bucket full of sand may replace the clamp stand, and the Plexiglas sheet may be suspended by wall hooks.

ALTERNATIVE ITEMS			
Item	Amount Required	Purchase Code	Total Cost
acetate*	24 in. x 16 in.	D	\$1.00
bucket*	1	D	\$1.00
sand*	1 kg	D	\$2.00
broom handle*	1	D	\$1.00
hooks*	2	H	\$2.00
COST OF ALTERNATIVE ITEMS:			\$7.00

INITIAL COST WITH ALTERNATIVE ITEMS: \$60.50

Tools

- drill with 1/2 in. bit
- dry erase marker
- scissors
- ruler
- projector
- measuring cup

Photos of Selected Items



Figure 1



Figure 2



Figure 5



Figure 3



Figure 4



Figure 6



Figure 7



Figure 8



Figure 9



Figure 10



Figure 11