

This worksheet is available online at www.oms.edu/k8chemistry.

Cleaning with Dirt

Recommended group size: 2–3

Number of Students: Number of Groups:

Supplies	Amount Needed	Supplies on Hand	Supplies Needed
plastic bottles, 20 oz. or 1-L (e.g., soda or water bottles)	2 per group		
plastic caps from plastic bottles	1 per group		
drill with 1/8" bit (or small screw and screwdriver)	for teacher		
scissors	1 per group		
masking tape	1 roll per group		
sand	2–3 cups per group		
cotton balls (optional)	1 per group		
pop-top squeeze bottles (e.g., water or sports drink), 16 oz. or larger	1 per group		
water	2 cups per group		
artificial pollutants (vegetable oil, dilute tempera paint, dirt, sticks, rocks, paper, Styrofoam)	1–2 tablespoons per pollutant per group		
plastic cups	1 per pollutant per group		
plastic spoons	1 or 2 per pollutant per group		
Extension A			
extra bottles for filters	amount varies		
extra sand for filters	amount varies		
other filter materials: dirt, potting soil, shredded paper, rice, kitty litter, charcoal, or gravel.	amount varies		

Supply Worksheet continues on next page.

Supplies	Amount Needed	Supplies on Hand	Supplies Needed
Extension B			
red cabbage	1 head per class		
knife, blender, or food processor	1 per class		
strainer	1 per class		
lemon juice	1 tsp per group		
crushed marble chips or crushed limestone	2–3 cups per group		
garden lime	1–2 cups per group		
hammers	1 per person crushing marble		
goggles	1 pair per person crushing marble		
Extension C			
timer or clock with a second hand	1 per group		
Teacher Demonstration			
After-Activity Clean Up			
large aquarium			
pitcher of water			