

Designing Environmental Solutions

Materials List

Chapter 3, Clean Up Your Spills!

Engage Materials

none

Explore Materials

For each team of 3 students:

- 1 eye dropper
- 1 plastic spoon
- 1 100 mL or 50 mL graduated cylinder
- shallow tray or bowl
- access to tap water and sink
- 50 mL vegetable oil
- 1 250 mL beaker for waste
- 1 clock, large, with a second hand that is visible to all students (or 1 stopwatch per team)
- 3 pairs of safety goggles
- 3 copies of Master 3-1, *Recovery Time Data Table*
- metric ruler

Explain Materials

For each student:

- 1 copy of Master 3-2, *Recovery Time Graph*

Elaborate Materials

For each class of 30 students:

- access to the *Oil Spill Technologies* simulation on a computer
- pens or pencils of different colors

Evaluate Materials

For each class of 30 students:

- pens or pencils of different colors
- access to the *Oil Spill Technologies* simulation on a computer
- graph paper
- 30 copies of Master 3-3, *Advantages and Disadvantages*
- 1 or 2 copies of Master 3-4, *Constraint Cards* (see Advance Preparation)
- tape or glue