Dye Detective

Learning Objectives: Students learn chemicals can be separated when they have different chemical properties.

SNEAK PEAK inside ...

ACTIVITY
Students use water and paper to separate the colors in black marker inks.

STUDENT SUPPLIES
see next page for more supplies
washable black markers
plastic cups
pencils, tape
filter paper (e.g., coffee filters), etc....

ADVANCE PREPARATION
see next page for more details
Cut strips of paper, if necessary
Label markers, etc....

OPTIONAL EXTRAS

DEMONSTRATION
Modeling the Procedure (p. G - 7)

EXTENSIONS
Calculating the “Retention Factor” (p. G - 13)
Inquiry Opportunity: Different Liquids (p. G - 14)

GROUP SIZE
1 – 3

for procedure B:
If available, goggles are recommended for this activity.

TIME REQUIRED

Advance Preparation: 20 minutes
Set Up: 20 minutes
Activity: 30 minutes
Clean Up: 5 - 10 minutes