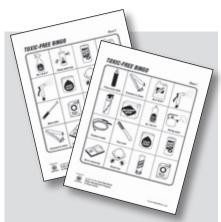
# **TOXIC-FREE BINGO** Finding Safer Alternatives to Hazardous Household Products



**Grade level** 4-12

#### **Related subject areas** Environmental Science Health

#### **Objective**

Students play a Bingo game to learn safer alternatives to hazardous household products.

#### Time

15-30 minutes

### **Equipment needed** *None*

#### Materials

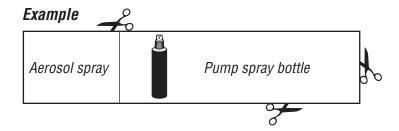
- Class set of Toxic-Free Bingo sheets
- Class set of Toxic-Free Bingo Keys
- Toxic-Free Bingo Key cut into strips
- Class set of markers (i.e. dried beans) for Bingo game

#### Introduction

Safer alternatives to hazardous products may do a similar job with less harm to human and environmental health.

#### Preparation

- There are fifteen different Toxic-Free Bingo sheets. Print out two copies of each sheet. That should give you enough copies for a class set.
- Find enough small objects, such as dried beans, to use as markers.
- Print out one copy of the Toxic-Free Bingo Key for each student.
- Make an extra copy of the Key and cut it into strips to use as calling cards to pull for Bingo.



#### **Directions**

- 1. Give each student a Toxic-Free Bingo sheet and a Toxic-Free Bingo Key.
- **2.** Give each student a sufficient number of beans or other markers.
- **3.** Teacher pulls a calling card strip and reads aloud the left side (the potentially hazardous product). In this example, the teacher reads aloud "Aerosol spray".
- **4.** Students use their Key to find the safer alternative to the hazardous product that was called. In this example, it would be "Pump spray bottle."
- **5.** Students look for the safer alternative (in this case a pump spray bottle), on their Bingo sheets; if they find it they put a marker on that spot. To increase learning, have a student say aloud the correct safer alternative for each call.
- **6.** Note that several of the potentially hazardous products have multiple safer choices.

#### For example:

- If the teacher calls "Drain opener with lye", students who have a box marked "Boiling water" may put a marker on it.
- Students who have a boxed marked "Plumber's snake" may put a marker on it.
- Students with both boxes may put a marker on each box.
- 7. Students get a "Bingo" with four in a row vertically, horizontally or diagonally. Let the winner be the caller for the next round.

# **TOXIC-FREE BINGO** KEY

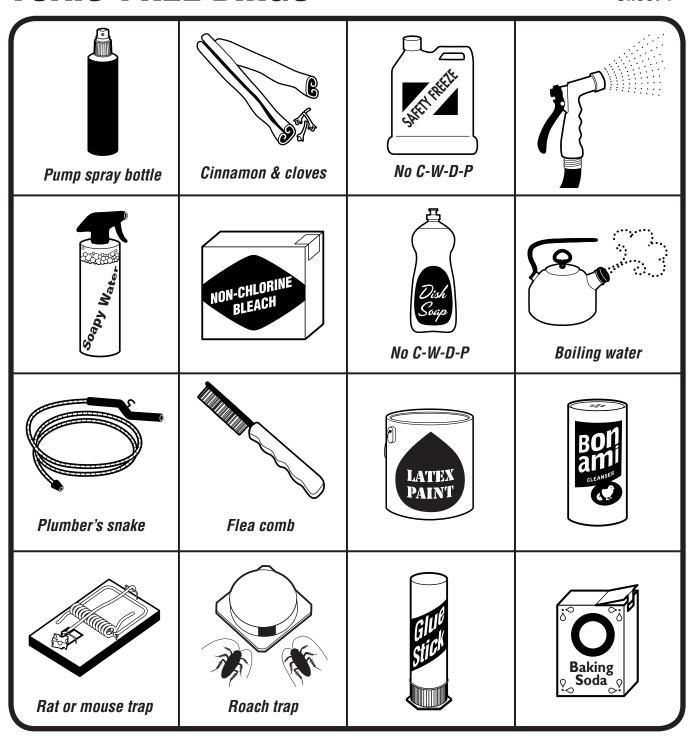
Potentially Hazardous Products	Safer Alternatives	
Aerosol spray		Pump spray bottle
Air freshener		Simmer cinnamon and cloves
Antifreeze marked with WARNING		Antifreeze with no C-W-D-P
Aphid poison	The state of the s	Spray with water three times weekly. Or squirt with soapy water.
Chlorine bleach to whiten clothes	NON-CHLORINE BLEACH	Non-chlorine bleach
Dishwashing soap marked with CAUTION	Druh Scape	Dishwashing soap with no C-W-D-P
Drain opener with lye		Pour a kettle of boiling water down the drain. Or, use a plumber's snake.
Flea collar	Manage	Flea comb
Oil based paint	LATEX PAINT	Latex or water-based paint
Oven cleaner with lye	Bon	Bon Ami

Potentially Hazardous Products	Safer Alternatives	
Rat or mouse poison		Rat or mouse trap
Roach poison		Roach trap
Rubber cement		White glue or glue stick
Scouring powder	Baking	Use baking soda and scrub
Shower cleaner with WARNING or CAUTION	CIFAN	Shower cleaner with no C-W-D-P
Slug poison		Slug trap
Spot remover	QUE SODA	Blot with club soda
Toilet bowl cleaner with DANGER	BOT	Bon Ami
Weed poison		Weed puller
Yellow jacket poison		Yellow jacket trap

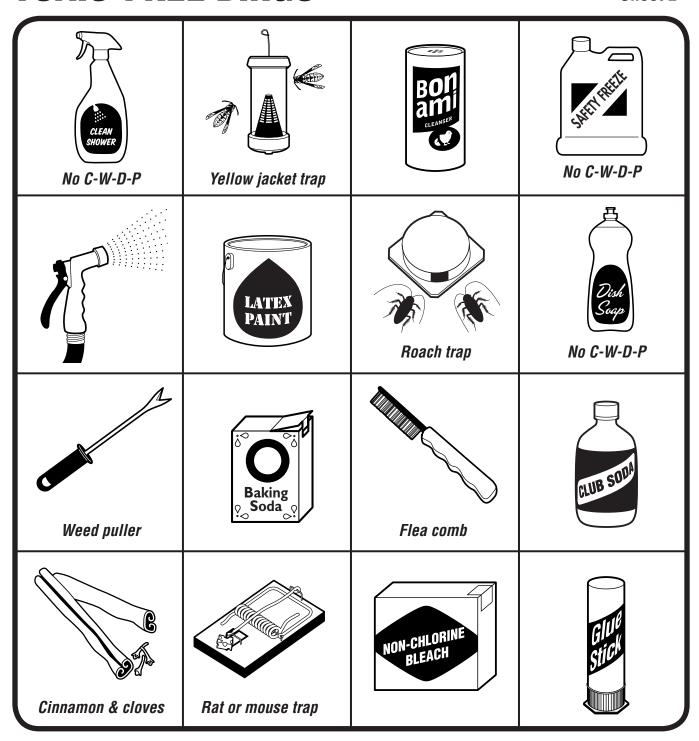
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### Sheet 10



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