



# NASA Food Technology Commercial Space Center

## Space Garbage Lesson Plan

(Lesson still under development.)

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**SUPPLIES** Plastic cups containing 1/4” square pieces of Limburger cheese should be prepared. Put a tight fitting lid on the cup.

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- Directions**
1. Smell one of the cups and remember the intensity of the aroma. Label this cup as the Reference R.
  2. Select 2 methods to treat each of the other 2 cups. Label the treatments on the cups. Wait 5 minutes. **DO NOT USE MORE THAN ONE TREATMENT IN A CUP!**

### Treatments and Use:

*AirWick* Odor Neutralizer—spray into cup for 1 second

*Lysol* Neutra-Air—spray into cup for 1 second

Kitty Litter—spring 1 spoon into cup

*Fresh ‘n Soft* fabric softener sheet—fold small piece of sheet into cup

*Charmin* FreshMates cloths—fold small piece of wipe into cup

Hydrogen peroxide—spray into cup for 1 second

Sodium bicarbonate (baking soda) spring 1 spoon into cup

*Ecolab* Mikroklene—spray into cup for 1 second

*ProSan* fruit and vegetable wash—spray into cup for 1 second

*Lysol* kitchen cleaner—spray into cup for 1 second

Sodium hypochlorite solution (bleach)—spray into cup for 1 second

Acetic acid solution (vinegar) —spray into cup for 1 second

3. Smell each of the treatments and rate the intensity of each by making a mark perpendicular to the horizontal line below. Label each mark with the treatment name.
4. Determine which treatment was most effective in reducing the intensity of the aroma.

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Aroma Not Intense

Aroma Very Intense

