

INFORMATION FOR LEADERS

What You Will Need for Each Activity

Listed below are the materials and preparations you will need for each activity. Most of the materials can be purchased locally. The more difficult-to-find items, such as pipets and disposable gloves, can be purchased from Wonderwise. The symbol © indicates that an item can be ordered from the Wonderwise Web site or Destination Education, Inc., the Wonderwise distributor. To purchase supplies, kits, videos, or CD-ROMs contact:

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Activity 1 Everyday Poisons	Activity 2 Investigating Starch	Activities 3 and 4 African Arts		Activity 5 Green Travelers
<p>For the entire group:</p> <ul style="list-style-type: none"> © 17-min. video <i>Fatimah Jackson, African Plant Explorer</i> <p>For each team of 4:</p> <ul style="list-style-type: none"> ▪ pencils or colored markers ▪ cookbooks from home or the school library that include recipes for potatoes, apples, lima beans, rhubarb, cherries, cassava (tapioca), avocado, and one that contains the spice nutmeg 	<p>For each team of 4:</p> <ul style="list-style-type: none"> © 1 plastic pipet or dropper © 1 teaspoon tapioca flour ▪ 2 tablespoons iodine (povidone-iodine 10% solutions works well and is found in drugstores) ▪ 4 soda crackers ▪ 8 small plastic or wax-coated paper cups ▪ 1 cup water ▪ 4 plastic spoons ▪ 1 plastic plate ▪ 4 or 5 small pieces of each: cheese, bread, corn chips, crackers, apples, potatoes, or celery for the prepared food plate (see instructions below) 	<p>For each team of 4:</p> <p>Day One</p> <ul style="list-style-type: none"> © 1 squeeze bottle with cassava gel (see instructions below) ▪ 4 pieces of white paper cut into 20 cm squares ▪ 4 pieces of white cloth cut into 20 cm squares (old cotton sheets work well) ▪ 4 pencils ▪ masking tape ▪ 4 cotton swabs ▪ hair dryer (optional) 	<p>For each team of 4:</p> <p>Day Two</p> <ul style="list-style-type: none"> © 1 pair disposable gloves ▪ 4 sponge paint brushes (about 2-3 cm wide) ▪ newspapers (enough to cover tables with a thick layer) ▪ 4 plastic spoons ▪ 1 plastic dish tub half-filled with warm water (fill immediately before use) ▪ 2 boxes dark blue dye (see instructions below) ▪ 7 plastic wide-mouth 16. oz. containers 	<p>For each team of 2:</p> <ul style="list-style-type: none"> © 1 large world map placed on a wall for the entire group ▪ thin-line colored markers or pencils ▪ ruler ▪ pencil
<p><i>Make 8 copies of the Poison Plant Recipe Card on p. 6 for each group.</i></p>	<p>To prepare the Food Plate:</p> <p><i>Cut up small pieces of at least 2 starchy foods (bread, cracker, potato, corn chip) and 2 non-starchy foods (cheese, celery, apple). Place on the plastic plate along with a teaspoon of tapioca flour.</i></p>	<p>To make cassava gel:</p> <ul style="list-style-type: none"> © 1½ cups tapioca flour (also called cassava starch) ▪ 3 teaspoons alum (powdered ammonium alum) ▪ pan of 9 cups water ▪ spoon <p><i>Directions (yields 9 cups)</i></p> <ol style="list-style-type: none"> 1. Combine ingredients in saucepan. 2. Heat on medium, stirring constantly for about 20 mins. 3. When starch thickens to an opaque gel, remove from heat. 4. Immediately spoon gel into squeeze bottles. 		<p>To prepare the dye: (yields 4 cups)</p> <ol style="list-style-type: none"> 1. Dissolve 2 boxes dye thoroughly in 4 cups hot water 2. Pour ½ cup dye into each plastic container 3. For best results, dye cloth while solution is still warm.