

# PLANET PROTECTION

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## About this 'Planet Protection' kit

This **kit** was created to assist you or your group in completing the 'Planet Protection' patch program.

**Kits** are books written to specifically meet the requirements for the patch program and help individuals earn the associated patch.

All of the information has been researched for you already and collected into one place.

Included are crafts, recipes, coloring sheets, and

other educational information. These materials can be reproduced and distributed to the individuals completing the program.

Any other use of these programs and the materials contained in them is in direct violation of copyright laws.

If you have any questions, please feel free to contact Patchwork Designs, Inc. using any of the methods listed below.



## Ordering and contact information

After completing the 'Planet Protection Patch Program', you may order the patch through Patchwork Designs, Incorporated. You may place your order in one of the following ways:

### Mail

**Checks and Money Order:** Please send checks and money orders, payable to Patchwork Designs, Inc. to:  
Patchwork Designs, Inc.  
8421 Churchside Drive  
Gainesville, VA 20155

### Credit Card

Telephone your Master-Card, Discover, or Visa order to (703)743-9948. Leave your order and credit card number on our secure line.

### Fax

Using these same card types, you may also fax your order to (703) 743-9942.

### Email

[orders@patchworkdesigns.net](mailto:orders@patchworkdesigns.net)  
Email is not secure to send your credit card information. Though you can

email orders if you have any questions about ordering.

### Online Store

Effective November 2006, customers may also order online through Patchwork Designs' website at: [www.patchworkdesigns.net](http://www.patchworkdesigns.net)

All information is secure.

Written by: Cheryle Oandasan

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# Planet Protection

Patchwork Designs, Inc

## Detailed Outline of Kit

**Page 3-4 List of Fast Facts and the Patch Program requirements** All age levels need to complete only 3 three requirements to earn the patch.

**Page 5-8 Craft ideas** to complete which will enhance your familiarity with the topic. Includes puppets, leaf rubbings, planting and ideas of how to create things from recycled materials.

**Page 9-12 Recipe ideas** to complete to enhance the participants knowledge of our planet in a fun and exciting way. Some recipes include: Crispy Earth, Animal cupcakes, and a cup of dirt.

**Page 13-14 Teach Me !** Information on various organizations to enhance your knowledge of how to help protect our planet. Examples are: Decorating paper bags, planting trees, and saving our endangered species.

**Page 15-21 Planet Protection Game** This game assists the participants in learning about recycle items and endangered species. You can also use the endangered species cards for a memory game or charades.

**Page 22 Word Search** Have the participants find words in this puzzle that represent Planet Protection.

**Page 23 Fishing For Fun Game** This game teaches the children about cleaning our water bodies and helping the fish that live there.

**Page 24 Earth Day Flyer** Decorate your own Earth Day flyer to hang in public areas or your home.

**Page 25 Recycle Chart** This chart assists you in keeping track of the items you recycle in one week.

**Page 27-30 Templates for Crafts** These pages assists you in completing the some of the crafts provided in this kit.

**Page 31 Food Chain** Create a food chain with this craft page.

**Page 32 Volunteer Hours Worksheet** Keep track of your volunteer hours assisting your community with this worksheet. This includes anything that you do for free for others such as: babysitting, raking leaves, bus patrol, church assistance, food drive etc.

**Page 33-34 Order Form and Shipping Chart**

**Page 35 Bibliography**

# Fast Facts!

**Are your groceries getting lighter?** If you compare the packaging to what was used 20 years ago, a 1/3 of the weight has disappeared. They are using fewer layers of packaging and thinner plastic. This helps save energy and waste in our landfills.



**What does non biodegradable mean?** Many of the items that we throw out are not biodegradable. This means it will not rot into the earth. When the items do not rot they will stay in our environment for many years. You can assist by recycling some of these items instead of throwing them away. Another way to help is to pick up litter in your area so the products are in the landfill where they belong.



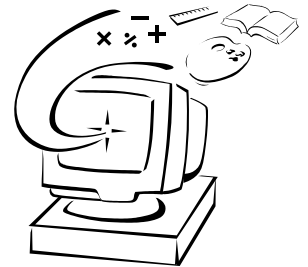
**Why should I recycle?** If we recycle then we can reuse items over and over. Some examples include: Paper, cardboard, plastic, batteries, oil, glass, holiday trees, old clothes, and much more.

**Glass or Plastic?** Every 1 liter plastic bottle that you recycle saves enough energy to light a light bulb 4 hours. Over 13 million tons of glass are made each year and it can be recycled over and over many times.



**Can I make money by recycling?** Some facilities actually pay you money to turn in your soda cans, newspapers, etc. You can also have a yard sale and recycle your used goods by selling them to others.

**Can it be fixed?** Be sure you fix your drips or leaks in your house as soon as possible so water is not wasted. Winterize your house by fixing all cracks in windows and doors so the heat doesn't escape on those cold days. Remember if you can not fix your computer or certain appliances they need to be disposed of in a special areas so the batteries or lead doesn't get absorbed into our earth's soil.



## How can I recycle?

1. Call your local recycle company and get set up to have the recycling company pick up your products.
2. Find out what your local company recycles.
3. Keep your recycle bin near your trash can so it is easy access when you are disposing of your waste.
4. Keep your recycle bin sorted by placing paper bags as dividers in the bin.
5. Wash the items that need to be rinsed prior to recycling.
6. Place your items out on the curb the day your recycle company picks up.
7. Kids don't forget to recycle at school.
8. Parents can recycle at work as well.
9. You can also use recycle
10. Use mulch in your garden or fresh rainwater to water the plants.
11. If you want to make cash for your recycling find out where your local "cash for cans", mobile phones, or printer cartridges are located.

**Why should I recycle?** Newspapers can be recycled as quick as ten days into a new paper. Plastics can be created into a warm winter coat. In a couple months your metal can be recycled into a refrigerator or car.



## Requirements for Planet Protection

**All age levels need to complete only 3 three requirements to earn the patch.**

The following requirements should be chosen according to the age level of the participant. The requirements can be worked on as a group or individually. Each requirement can be completed at home, in school, or with specific groups. **YOU HAVE ONE OF TWO OPTIONS TO COMPLETE THIS PROGRAM.**

**OPTION ONE:** Choose any THREE activities under one category (requirement) to complete. **OPTION TWO:** Choose 3 of the following requirements to earn this patch.

1. **CONSERVE**-Conservation is when you use just what you need and don't over use. Play in the sprinkler when you are watering the yard or wash the car with a bucket of water instead of running the hose constantly. Some other examples include: placing mulch around the trees and bushes, turning off water while brushing teeth, turning lights off when you are not using them, eating your leftovers from meals, OR fixing a leaky faucet. <http://www.epa.gov/region5/publications/happy/happy.pdf>
2. **POLLUTION**- Litter is one of the main causes of pollution on our planet. It affects animals, humans, and plants. The chemicals located in aerosol products break up the ozone layer of our environment. This will create ultraviolet waves to be closer to earth. Choose a way to prevent pollution on our planet. Examples include: water clean-up, carpooling to school, not using aerosol products, OR land clean-up.
3. **ADOPT**-Participate in an adopt a tree or highway program. Find one of these programs in your local town or park. Otherwise you can adopt a tree in your back yard or woods. Learn more about your tree and give it a name. Create leaf rubbings or a drawing of the tree. Make sure you take care of your tree or highway. <http://www.sciencespot.net/Media/adopttree2.pdf>
4. **RECYCLE**- We need to recycle our products so we can cut down on the amount of trash in the landfills and the price of products we use daily. If you already recycle then you are already one step closer to protecting our planet. Examples include: recycle at school or home, create a craft from a recycled product, give your clothes away to a thrift shop, donate magazines to schools or retired facilities, buy recycled items, OR collect recycled material for a cause.
5. **GROW**- Plant a tree, flower, or plant. Choose an activity to complete that helps the earth grow. Some examples include: Helping in a garden, landscaping at schools or churches, spreading mulch to keep the ground moisturized, or plant flowers in flower pots as a gift.
6. **CREATE**- Create a craft or recipe activity representing planet protection, earth day, or using recycled materials. Examples include: Reuse egg cartons, margarine containers, glass jars, paper plates, pet rocks, wind socks and much more.
7. **CELEBRATE**--- Earth day is on April 22nd . Many communities and groups use this day to clean the outdoors, plant trees, recycle and teach others about keeping the planet healthy. Contact your local grocer to see if you can decorate paper bags with Earth day decorations and donate them back to use the month of April, participate in Earth Day, an Earth Day activity, or celebrate another event representing the preservation of our planet. <http://www.earthdaybags.org/>
8. **ENVIRONMENT**- Complete an activity that protects our environment. Choose any activity that you would like to participate in or create. This could be teaching others about the water cycle, protecting animals, oil spills, learning about an estuary and the animals, seashore clean-up, wetlands, and much more.
9. **ANIMALS**- Animals depend on our air, water, and plants to survive on the planet. Learn more about a food chain, endangered species, or an animal that relies on the environment to survive. List the animals and where they reside.
10. **ECOLOGY**- Learn how organisms relate to each other in their environment. It is important to protect the earth from pollution and erosion. Choose one area to study. Sit down in front of it and observe the area. Make a list of 3 plants, trees, or flowers and 2 animals or insects in the environment. For extra, sketch the area you are observing. Example of areas to study are: ponds, rivers, lakes, wetlands, forest or park.
11. **TEACH ME**- Attend an event, facility, or learn about protecting your planet at school. You may be able to accomplish all three requirements if you conduct several activities at these events or conduct an extensive study on protecting our planet.
12. **CAREERS**- Learn about careers in assisting the environment or protecting the planet. Are there any careers you would like to do? Some examples include: scientists, pet care, geosciences, botanist, or park ranger.

## Crafts

Crafts can cover requirements #4, #6, #7, #8, and #9.

### Nature Crafts

**Decorate a Flowerpot and Plant a Flower**  
**Leaf Rubbings**  
**Birdfeeder**  
**Pet Rock**

### Animal Crafts

**Duck**  
**Turtle**  
**Monkey Paper Bag Puppet**  
**Tiger Paper Bag Puppet**

### Creating Items from Recycled Materials

**Colorful Basket**  
**Bowling Game**  
**Blast Off ! Rocket**

## Decorate a Flowerpot and Plant a Flower

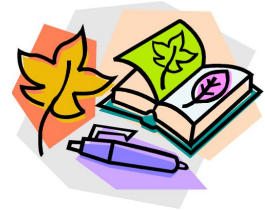
Clay pot  
Acrylic paint  
Brushes  
Potting soil  
seeds



Have the participants paint the clay pot in vibrant colors. Let the pots dry. Fill the pot 3/4 full of potting soil and plant the seed. Water on a regular basis and watch it grow.

## Leaf Rubbings

Leaves  
White copy paper  
crayons



Place the leaf under the paper. Peel the paper off the crayon and rub over top of the leaf. Choose different leaves and colors to accent your paper.

## Birdfeeder

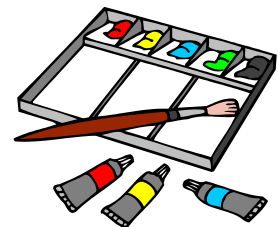
Pinecone  
Peanut butter  
Bird seed  
Yarn or string  
Plastic knife  
Paper plate



Cut a long length of yarn or ribbon to hang the bird feeder. Tie the string or yarn in a knot around the pine cone near the top. Place a scoop of peanut butter on a paper plate. Use the plastic knife to spread the peanut butter on the pine cone. Hold the pinecone over the paper plate and sprinkle the birdseed over the pine cone. Roll the pine cone in the birdseed that landed on the plate. Hang the bird feeder on the tree. Watch the birds come and enjoy the bird seed.

## Pet Rock

Rock  
Paint  
paintbrush  
Optional: googly eyes, glitter, etc.



Gather a rock that you would like to make your pet. Paint decorations on your rock. Add any optional decorations. Use your rock for a paper weight, place on your night stand or decoration.

Diagram of head and feet (located in the back of this kit)  
Optional: yellow feathers

**Create one of the animal crafts below that represent an endangered species or one that lives near a body of water. ( Requirement # 9)**

### **Duck**

Paper plate  
Scissors  
Glue Stick  
Stapler  
Yellow and orange crayons  
Crayons or markers

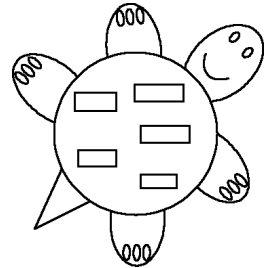


Color one side of the paper plate yellow. Take the paper plate and fold it in half. Color the face yellow. Color the beak and the feet orange. Cut them out. Glue the feet slightly inside the lower part of the paper plate. Glue the face on the paper plate. Staple it around the edges.

(optional) Add yellow feathers to the paper plate.

### **Turtle**

Paper plate  
Turtle pattern  
Green marker and crayon

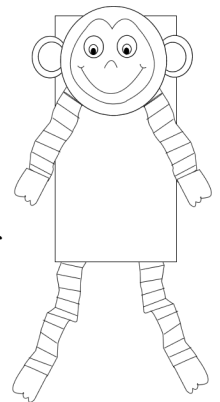


Draw rectangular squares on the paper plate with the green marker. Color the paper plate and body parts with the green crayon. Cut the body parts out and glue them underneath the paper plate.

### **Monkey Puppet (Endangered Species)**

Brown paper bag  
Brown construction paper  
Scissors and glue stick

Color the outer edge of the monkey dark brown and the inner part of the ears and face a light brown. Color the hand and feet pieces dark brown. Cut four 11 1/2 X 1 1/2 inch wide strips of brown construction for the arms and legs of the monkey. Fold the strips accordion style. Glue the hand and feet pieces to the end of the strips. Glue the other end of the strips to the paper bag. Glue the face on the top of the bag.



### **Tiger Paper Bag Puppet (Endangered Species)**

Tiger pattern (located in the back of this book)  
Paper lunch bag  
Orange crayon or marker  
Scissors and glue stick

Copy the pattern on paper and color it orange. Cut it out. Glue it on a paper bag top and prepare an animal puppet show.





## Creating items from recycled materials.

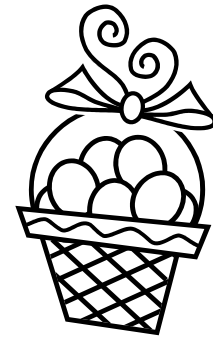
### Colorful Baskets

#### Berry Baskets

Construction Paper or ribbon

Stapler

Scissors



Weave the ribbon through the slats of the basket or cut the construction in 1/2 inch strips or the correct width that will weave through the slots of the baskets. Attach strips together with the stapler to secure them together. Fill the basket with shredded paper or fill with any desired items.

### Bowling

2 liter soda bottles empty (10)

sand for weight on the bottom of bottles

Basketball, volleyball or soccer ball

stickers or self adhesive designs (OPTIONAL)

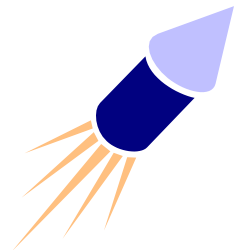


Wash out the soda bottles well. Leave them upside down to drain.

Place sand in the bottom of each container about 1/2 inch to an inch. They tend to follow over very easy without a little weight. Place optional decorations on the outside of the bottles. The labels can also be used as decorations. Some soda bottles are already pre colored. Take turns bowling with your chosen ball.

### Blast Off ! Rocket

Film canister with snap on lid	Markers or crayons
Toilet paper roll	Scissors
Construction paper	Water for film canister
Scotch tape	Eye protection (glasses or sunglasses)
Alka-Seltzer tablets	



Make sure the film canister you use has a cap that fits INSIDE the rim instead of over the outside of the rim. Don't forget you can ask photography shops if they have extras.

Cut the side of the toilet paper roll all the way to the end.

Place the film canister at one end of the toilet paper roll, wrapping it around the canister and taping it tightly into place. Make sure the film canister lid sticks out about 1/8 of an inch.

Before decorating place the lid of the canister down.

Cut a circle from construction paper about 3 inches in diameter. Cut a small pie shape out of the circle and shape it into a cone shape to place on top of the rocket.

Decorate your rocket with markers or crayons.

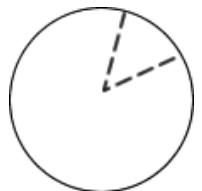
Cut out shapes from construction paper to make fins on the sides or create decorations for the outside of the rocket.

Take the rocket outside with water, Alka-Seltzer tablets, and eye protection.

Put on your eye protection.

Turn the rocket upside down, remove the lid from the canister, and fill 1/4 full with water. Drop in tablet and immediately replace lid and set on ground. Back up!

Watch your rocket blast off !





## Recipes

Create recipes that celebrate our earth or use resources wisely. The following recipes encourage you to use leftovers, seasonal items, fun creations, or have potluck.

Tiger Cookies

Polar Bear Cookies

Animal Face Cupcakes  
(Tiger, Polar Bear, Turtle)

Crispy Earth

Rainbow Jell-O®

Under the Sea

All Mixed Up

Ants on a Branch

Cup of Dirt

Cup of Dirt Made Easy

## **Make a creative food product that represents an endangered species or one that lives near a body of water. (Requirement # 9)**

Decorate cookies with prepackaged slice and bake sugar cookies and roll them out and cut with cookie cutters or slice and bake in circle shapes. You can also make sugar cookies from scratch.

Below are some variations of cookies that can be created without cookie cutters.

1 package of slice and bake sugar cookies  
white frosting  
chocolate frosting  
food coloring  
gel frosting for fine details  
toothpick

### **Tiger Cookies**

Slice cookies in circles. Use about ¼ inch of excess dough and pat it flat. Cut into triangles with a butter knife. Place one on each side of the cookie and press it down flat and firmly against the circle to create ears for the tiger. Bake in the oven as directed, let cool. Frost the top of the cookie with WHITE icing to represent a white tiger or dye the icing ORANGE. Use BLACK gel icing for details. For extra you can use BLACK LICORICE for whiskers.

**Polar Bear Cookies-** Slice cookies in circles. Use about ¼ inch of excess dough and roll into small balls for the ears. Place one on each side of the cookie and press it down flat and firmly against the circle to create a bear. Bake in the oven as directed, let cool. Frost the top of the cookie with WHITE icing. Use BLACK gel icing for details of nose and mouth. For extra, use PINK gel icing for inside ears and mouth.

### **ANIMAL FACE CUPCAKES**

yellow or chocolate cake mix (items needed listed on the box to prepare it)  
food coloring  
White frosting  
black gel (for decorating)  
Misc. items as need per design

**Tigers:** Add orange food coloring to some vanilla frosting a little at a time until it is the desired shade. Frost the top of the cupcake. Use the black decorative gel to draw on the tiger's stripes, eyes, and nose.

**Polar Bear:** Frost the cupcakes with white frosting. Take a black sandwich cookie and break it in half. Use white frosting to make it look like the other side of the cookie. Place them on either side of the cupcake for ears. Draw eyes, and mouth on the cupcake with the black decorative gel.

**Turtle:** Add green food coloring to the frosting. Frost cupcake. Add a large gumdrop for the head and a small gumdrop for the tail. . Use a brown or chocolate gel for the criss cross on the top. Draw nose and mouth with black or brown gel frosting. (optional) Add pecan halves for feet off the side of the cupcake.

## Crispy Earth

6 cups of rice crispy type cereal  
 4 cups miniature marshmallows (10 oz bag)  
 3 tablespoons butter or margarine  
 Aluminum foil  
 pizza pan  
 Miscellaneous decorations: Mini M & M's®, chocolate chips, green and blue sprinkles etc.



Melt margarine in large saucepan over low heat. Add marshmallows and stir until completely melted. Remove from heat. Pour the rice crispy cereal in the mixture one cup at a time, mixing thoroughly as you add the cereal.

Pour the marshmallow mixture out on a pizza pan and press down with a buttered spatula to create an even surface. (\*optional draw an outline on the rounded shape to represent the continents) This will give the participants an outline to follow for decorations.

Have the children place their decorations on the globe. When the earth is complete cut and eat.

## Rainbow Jell-O® (flavors according: <http://www.kraftfoods.com/jello/products/flavor-finder/>)

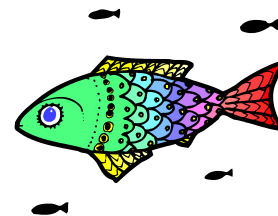
Large glass baking dish (13X9)  
 1 large box of RED Jell-O® (cherry, watermelon, raspberry, or strawberry)  
 1 large box of ORANGE Jell-O® (orange, peach, or apricot)  
 1 large box of YELLOW Jell-O® (lemon or pineapple)  
 1 large box of GREEN Jell-O® (lime)  
 1 large box of BLUE Jell-O® (berryblue)  
 1 large box of PURPLE Jell-O® (grape)  
 1 tub of Cool-Whip® topping  
 Water to prepare the Jell-O®  
 Cooking spray oil (to coat the pan)



Spray the pan with the oil spray. Prepare the Jell-O® according to the package. Start with the RED layer on the bottom of the glass baking dish. Place it in the refrigerator and let it set up for at least an hour. Prepare the ORANGE layer and place it on the red layer. Continue this process in the following order: YELLOW, GREEN, BLUE and PURPLE. After the layers are thoroughly set up cut it in squares and serve with a fluff of Cool-Whip® topping to represent the cloud at the end of the rainbow.

## Under the Sea-(serves 4)

3/4 cup of boiling water  
 1 small box of BLUE Jell-O® (berryblue)  
 Ice cubes  
 1/2 cup of cold water  
 4 fish shaped gummy fruit snacks  
 Clear plastic cups



Place the Jell-O® in a medium bowl until it is completely dissolved. Add ice cubes to cold water until it reaches the 1 1/4 cup line. Place the ice cubes and cold water in the to Jell-O® mixture. Stir until the mixture thickens, removing any unmelted ice. Refrigerate until slightly thickened. Pour the gelatin over the fruit. Place the fish in the gelatin and place in the refrigerator until it is firm. Serve.

**All Mixed Up**-This is a great way to recycle that leftover cereal and snack items.

Variety of cereal

Dried Fruit or nuts (bananas, coconut, peanuts, etc)

Chocolate (candies, chips, etc.

Ziploc bags



Place a handful of cereal from three different boxes. Add chocolate and a variety of other desired ingredients inside the bag. Shake the bag up and enjoy your leftover snack. For extra, you can take it on a hike or an Earth Day celebration.

### Ants on a Branch

1 package of graham cracker sticks

1 package of raisins

Creamy Peanut Butter (beware of Peanut Allergies)



Spread the peanut butter on top of the graham cracker stick, making sure it is a thick layer. Place the raisins on the peanut butter in a row to look like ants in a row on a tree branch. Serve.

### Cup of Dirt

1 package of Oreo or chocolate sandwich cookies

1 large package of instant chocolate pudding

1 box of graham cracker crumbs (optional)

1 small bag of miniature M&M's (optional to represent hidden gems)

gummy worms (optional)

cups (clear cups work better if you would like to see the layers of the dirt)

spoons



Prepare instant pudding as directed on package, refrigerate. Remove the cream from the chocolate sandwich cookie and discard. Place the black halves of the cookies on a firm, clean, surface and crush well. Set aside in a bowl. Place graham cracker crumbs in a bowl.

Remove pudding from refrigerator and place a generous helping at the bottom of the cup. Tap the cup on the counter to level the pudding in the cup. If you choose not to use the optional layers then simply layer the pudding and Oreo crumbs until the cup is full as desired. Make sure you top with cookie crumbs.

### *Otherwise, layer as follows with optional items:*

Begin with chocolate pudding, place graham cracker crumbs, pudding, a worm, chocolate crumbs, M&M's, pudding and continue with items until your creation is complete. Refrigerate until ready to serve.

### Cup of Dirt Made Easy

1 package of Oreo or chocolate sandwich cookies

chocolate pudding cups

gummy worms (optional)

spoons

cup (to place excess pudding in)



Peel off the top cover of the pudding cup and discard. Spoon out a enough pudding from the cup to sprinkle some cookie crumbs on top. If you are placing gummy worms in the pudding do so before placing the crumbs on top. Be creative and have the worms hanging over the edge. *Serve your creations and dig in !*

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## **Teach Me !**

Visit websites or contact organizations that can assist you in helping protecting our planet.

**National Arbor Day Foundation**

**Plant It 2020**

**WWF (World Wildlife Fund)**

**Earth's Birthday Project**

**Earth Day Grocery Bag Project**

**EPA (Environmental Protection Agency)**

**National Arbor Day Foundation-** <http://www.arborday.net/>

**Learn:**

Detailed Tree Guide and Identification  
Tree Care Tips  
Learning With Nature Idea Book  
Online Games and Activities  
Grown your Own Tree  
Posters, Booklets, Videos, and Flyers

**Plant It 2020-** <http://www.plantit2020.org/>

**Goal:**

Every US dollar donated is directed towards the planting of an indigenous tree planted in the location in the United States and world wide where you choose. They increase the total number of trees being planted in a non harvest area.  
They cover several states and over 40 countries.

**WWF (World Wildlife Fund)-** <http://worldwildlife.org/>

**Learn:**

Information about endangered species  
Animal adoption  
Pennies for the Planet program (Encourages young people to collect pennies to save animals)

**Earth's Birthday Project-** <http://www.earthsbirthday.org/>

**Goal:**

To educate children about the earth. Teaching about conservation and using resources wisely.

**Learn:**

Order Butterflies or other insects  
Hands on science activities  
Invent a Rainforest Animal  
Collect plastic bottles and ship to them in a postage paid box

**Earth Day Grocery Bag Project-** <http://www.earthdaybags.org/>

**Goal:**

Contact the local grocery store and ask the manager to borrow brown bags  
Decorate the bags with environmental messages  
Deliver the bags decorated  
The grocery store will give the bags out to the customers showing the kids wonderful artwork  
Purchase your patch for participation through Patchwork Designs.



**EPA (Environmental Protection Agency)-** <http://www.epa.gov/osw/kids/ppcform.htm>

**Learn:**

Programs and free activity sheets  
Fun activities online  
Knowledge assisting on protecting our planet  
Clubs children can join with reward certificates and much more



## **Games and Activity Sheets**

**Planet Protection Game**

**Planet Protection Word Search**

**Fishing for Fun Game**

**Celebrate Earth Day Flyer**

**Recycle Chart**

**Layers of the Earth**

**Monkey Puppet Template**

**Turtle Craft Template**

**Tiger Puppet Template**

**Duck Craft Template**

**Food Chain**

**Volunteer Hours Worksheet**



# Rules of the Planet Protection Game

**You will need dice and individual markers for the players.**

The markers can be buttons, coins, or other game pieces.

Everyone begins at the START square and move clockwise from there.

**Set-up:** The highest roll of the dice goes first and the turns are clockwise there after. Everyone places their markers on the “Start Here” space. Participants can move backward and forward along the board in order to get to certain marked spaces.

Place the cards on the designated labeled areas located on the game board face down.

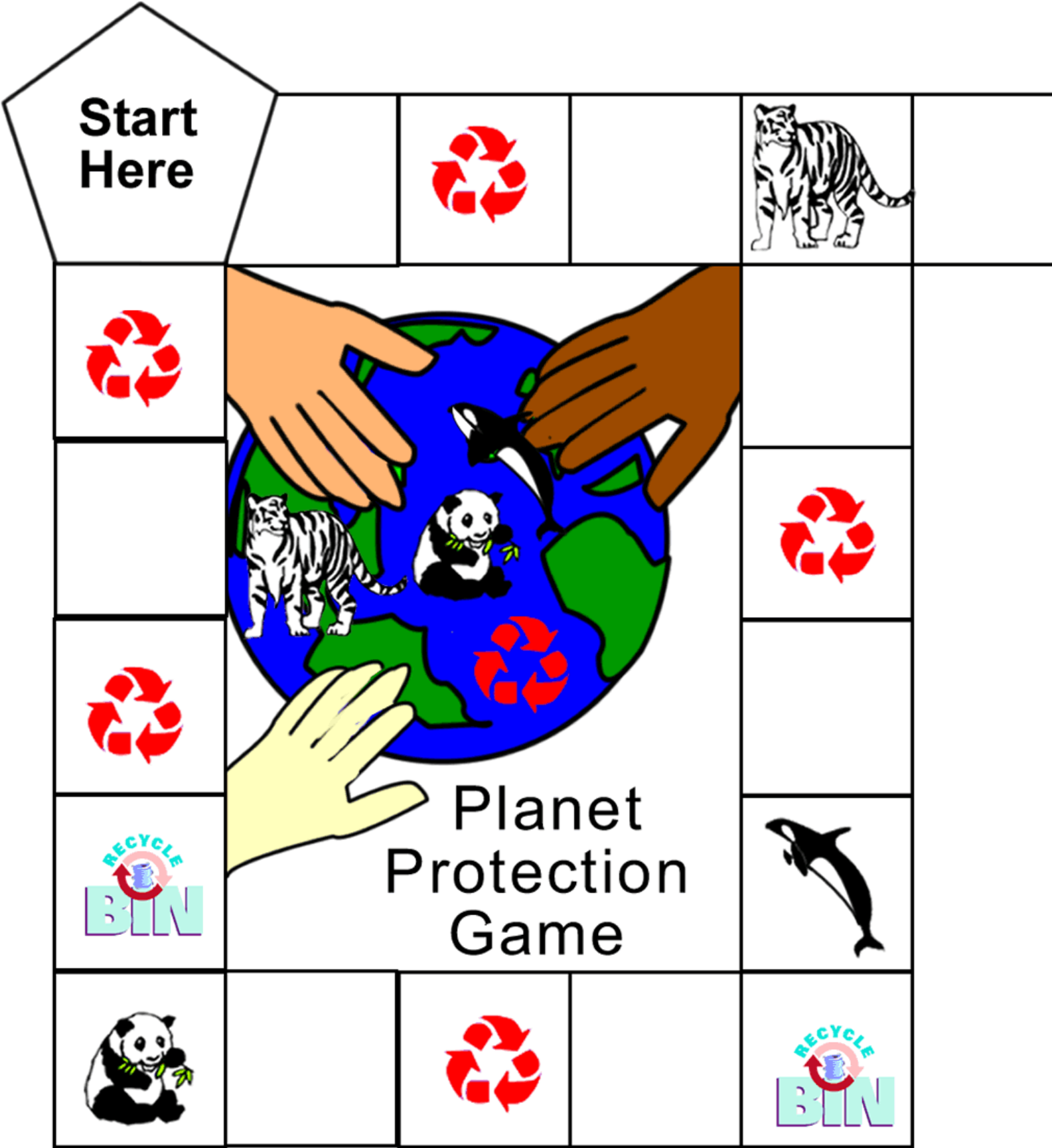
**Landing on a recycle symbol:** If they land on a recycle symbol, then they draw a recycle card from the pile. They will need three recycle cards and three animal cards to win the game.

**Landing on an animal or species:** If they land on an animal spot, then they can draw a card from the animal card pile. They will need three recycle cards and three animal cards to win the game.

**Landing on recycle bin:** If they land on the recycle bin symbol, then they can “recycle” their cards by asking another person playing the game to switch an animal card for a recycle card or vice versa. If they do not wish to trade or “recycle” any of their cards then they don't need to do anything on their turn. If another player asks you to switch cards when they land on the recycle bin, then you must switch cards with them.

**Winning the game:** The goal of the game is collect three recycle cards and three species cards. You will need to make it back to start in order to present your game pieces to the other players. You do not need to land directly on start but need to roll a high enough number to get there. Beware of the recycle bin cards landed on by other players along the way, you could loose recycle or species cards before you get back to start. Participants will use math skills as they play the game. In addition, they will learn about the items you can recycle and the various endangered species in the world.

If only older participants are playing the game then you can raise the goals.


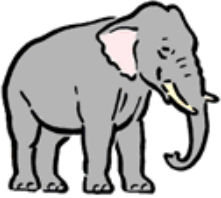




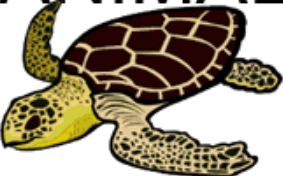





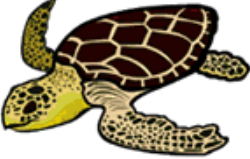


Start  
Here



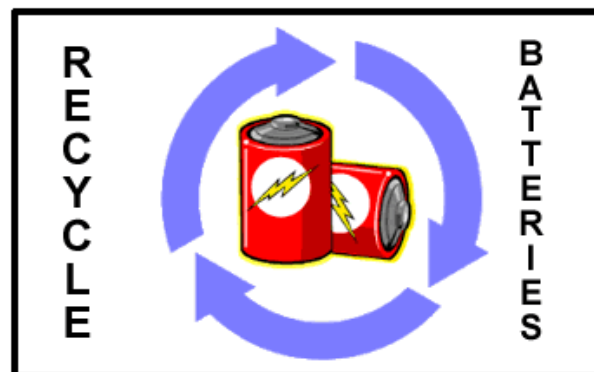
Planet  
Protection  
Game



					
		<div><p>RECYCLE</p><p>DAILY TIMES</p><p>WHEEL IN RECYCLING</p><p>RECYCLE CARDS</p></div>			
					
		<div><p>ANIMAL</p><p>CARDS</p></div>			
					
					

# Recycle Game Cards

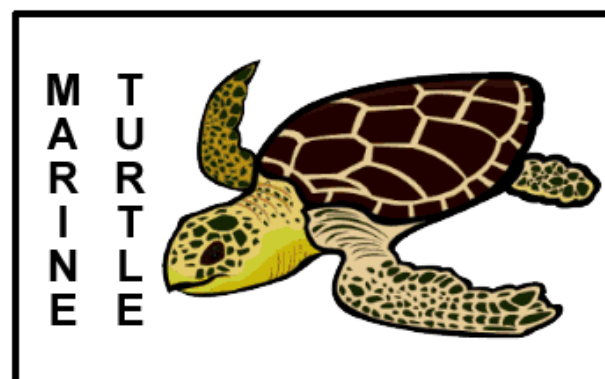
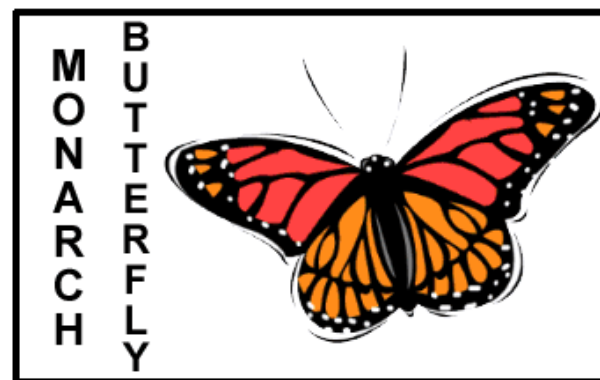
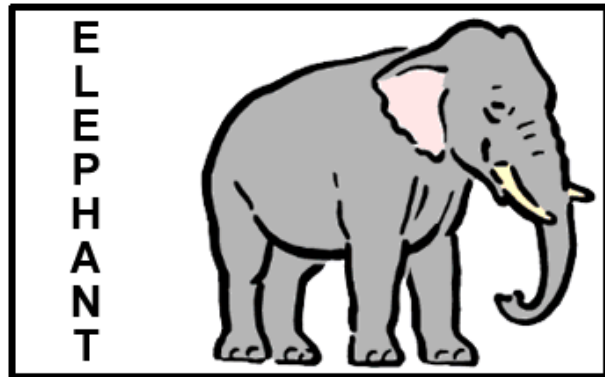
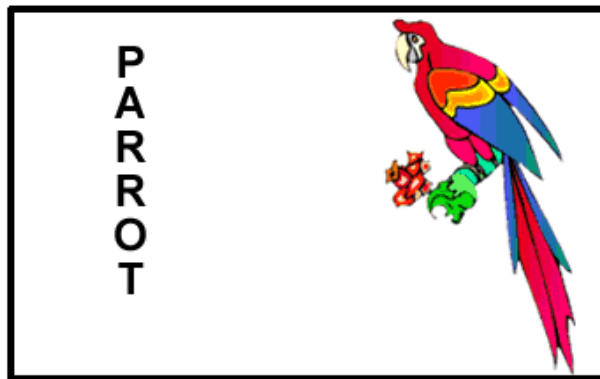
Make at least **three copies** of these game cards. When they land on a recycle symbol they can collect a recycle card from the pile. Remember you have to collect three recycle cards to win the game.



# Endangered Species Cards

Make at least **two copies** of these game cards. When they land on an animal space they can collect an animal card from the pile. Remember you have to collect three animal cards to win the game.

Endangered Species are determined by the IUCN, the World Conservation Union. They compile a list of all species that are endangered of becoming extinct around the world.



## Endangered Species Cards

Make at least **two copies** of these game cards. When they land on an animal space they can collect an animal card from the pile. Remember you have to collect three animal cards to make it to win the game.

*You can also use these cards to create a memory game for the participants or to play charades.*

W  
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E

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R

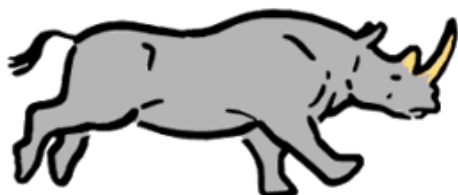


O  
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N



# Planet Protection Word Search

Y	Z	E	J	O	F	D	R	G	Y	L	F	Y	C	E
R	A	L	N	F	M	F	I	G	B	O	I	L	W	L
D	A	D	Q	V	T	L	O	H	O	I	J	C	P	C
S	Q	G	H	T	I	L	T	D	E	W	F	S	P	Y
L	Y	V	R	T	O	R	C	M	E	I	X	W	O	C
Z	E	O	K	C	R	H	O	Y	R	L	H	S	L	E
G	A	P	E	R	A	A	F	N	X	U	L	A	L	R
K	R	U	L	I	T	T	E	R	M	I	T	D	U	J
X	F	N	N	A	F	O	X	S	T	E	W	P	T	B
E	V	R	E	S	N	O	C	A	J	I	N	K	I	M
Q	Y	Q	R	V	L	E	E	H	O	P	Y	T	O	R
V	Z	M	D	G	F	K	T	B	T	G	X	T	N	C
H	W	X	A	Q	R	C	O	V	Z	S	K	G	A	Z
V	R	S	E	R	I	T	K	K	B	W	H	Z	T	T
D	J	C	P	F	O	N	N	H	A	H	V	O	A	F

Try to find the following words in the above puzzle.

CONSERVE

ENVIRONMENT

PLANET

EARTH DAY

FOOD CHAIN

POLLUTION

ECOLOGY

LITTER

RECYCLE



## **Fishing for Fun**

cutouts (below)  
paper clips  
magnet  
string  
pencil or stick  
shoe box

### **Directions on how to play:**

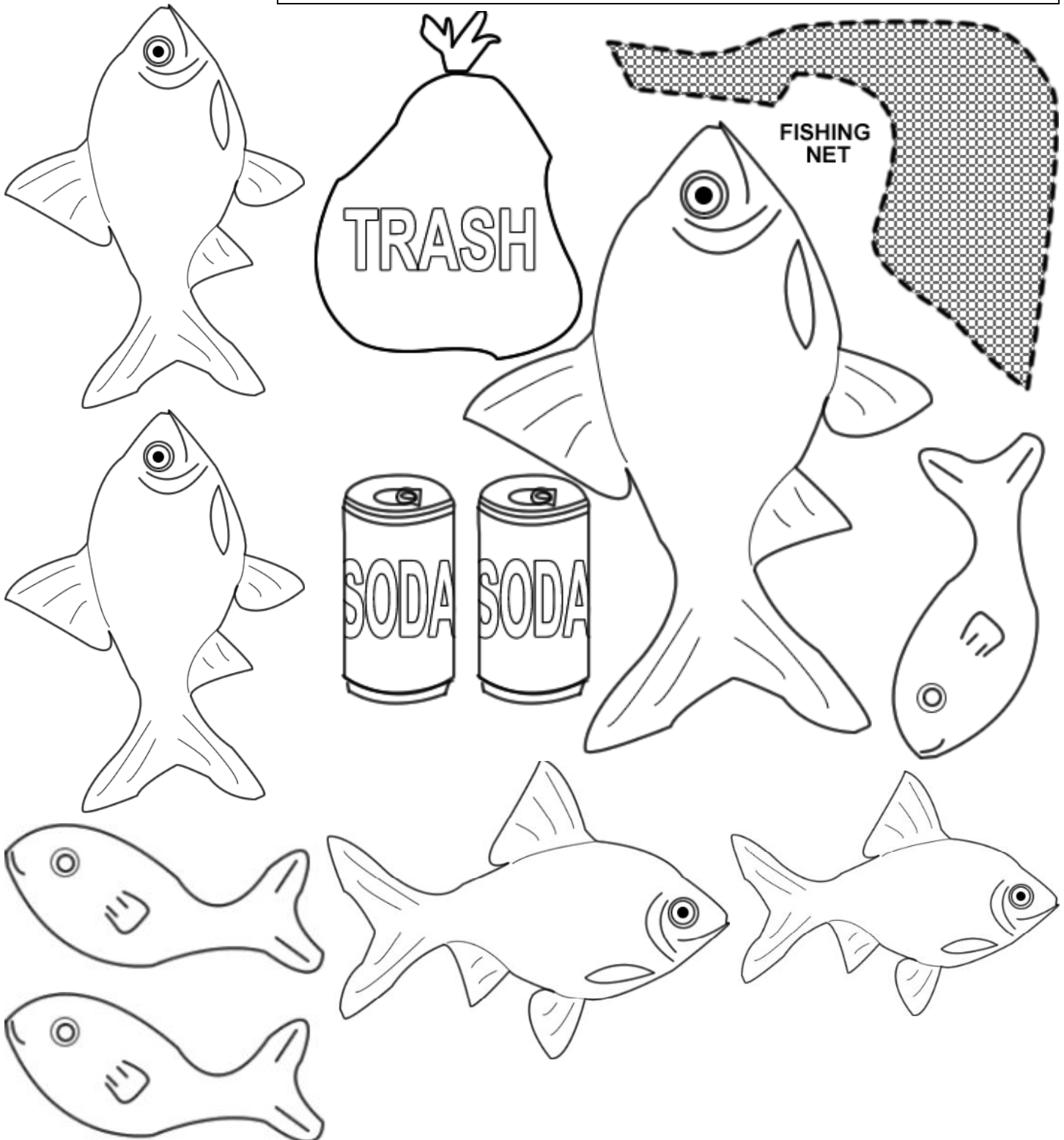
Make at least two copies of the cutouts. Decorate and cut them out.

Attach a paper clip to each cutout and place them in a shoebox.

Attach the magnet to a length of string (this would be easier to do with a magnet that has a hole through it).

Attach the other end to the end of the pencil or stick.

Try to pick up the cutouts with the magnet, like a fishing pole. You will need to pick up the trash to clean up the pond and then try to pick up at least one fish to go fishing!



*Celebrate*

*Earth Day !*

# RECYCLE CHART

Did you know that an average family throws away one ton of trash a year? Most of the trash in the average garbage can be recycled instead of being thrown away. We need to recycle our products so we can cut down on the amount of trash in the landfills and the price of products we use daily. If you already recycle then you are already one step closer to protecting our planet.

To start recycling you need to clean the items and sort them in groups. The below chart will assist you in that. ( Requirement # 4)

**Keep track of the number of items you recycle in a week.**

DAY	# of Plastic products	#of glass products	#of paper products	#of aluminum products	Other
Sunday					
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					
Saturday					

## List any other items you recycled.

Examples include: recycle at school or home, create a craft from a recycled product, give your clothes away to a thrift shop, donate magazines to schools or retired facilities, buy recycled items, OR collect recycled material for a cause.

# Layers of the Earth

Learn more about structure of the earth from the inside and out.

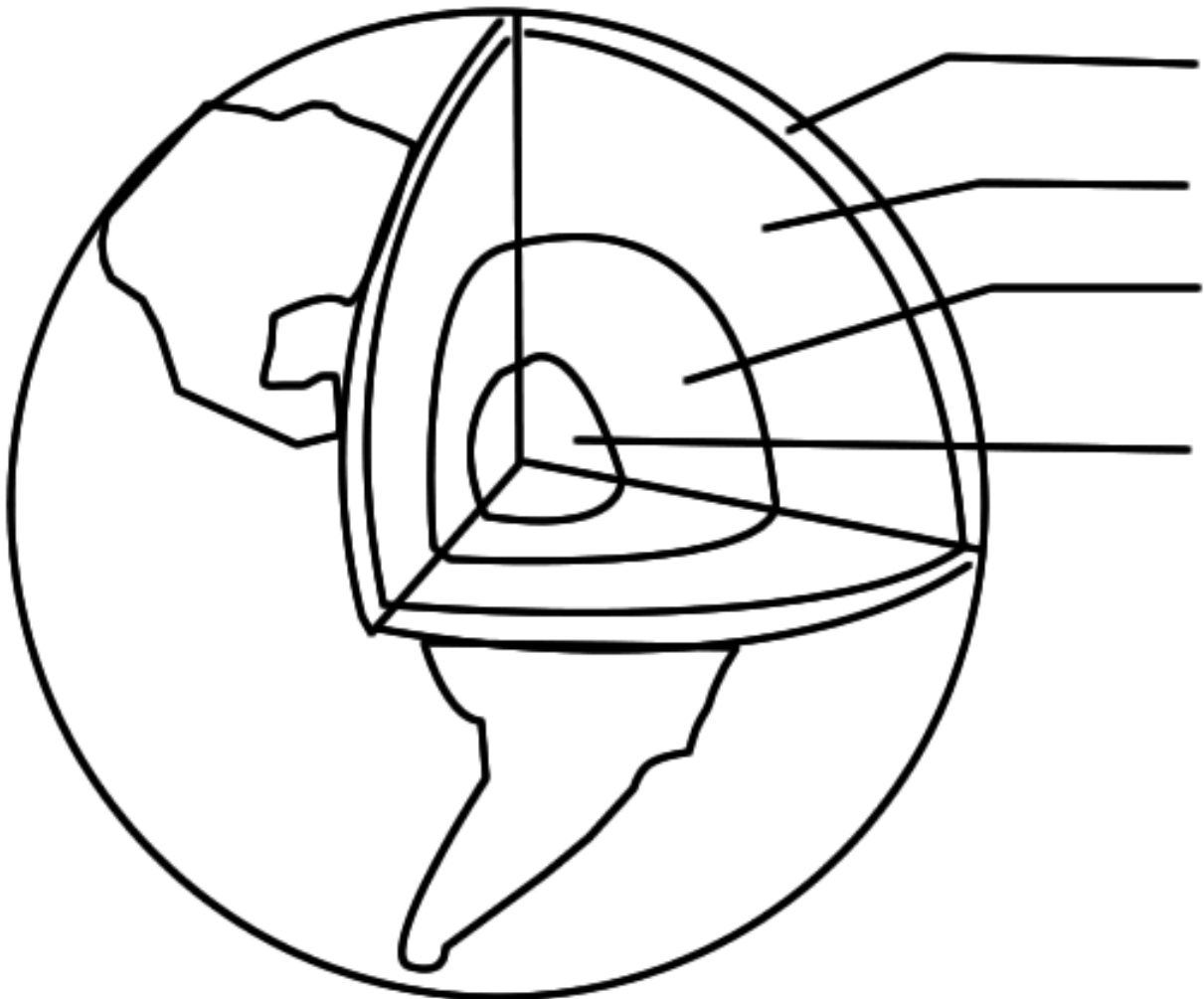
**Label the four layers of the earth.**

**crust** - the outer surface of the Earth.

**inner core** - very hot inner part of the earth.

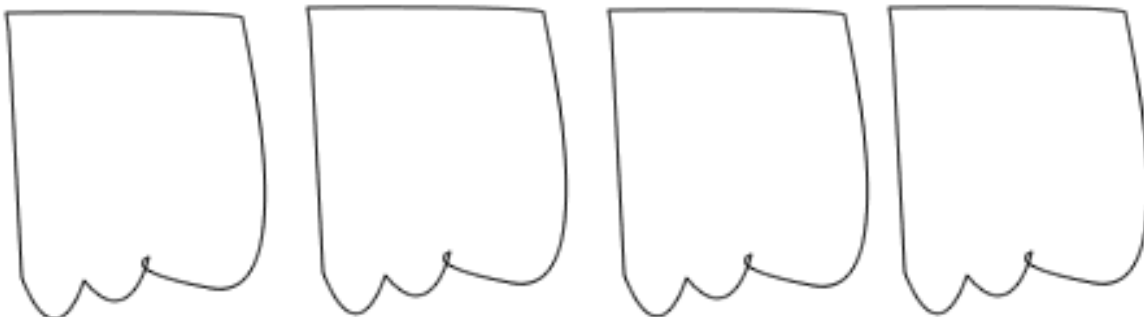
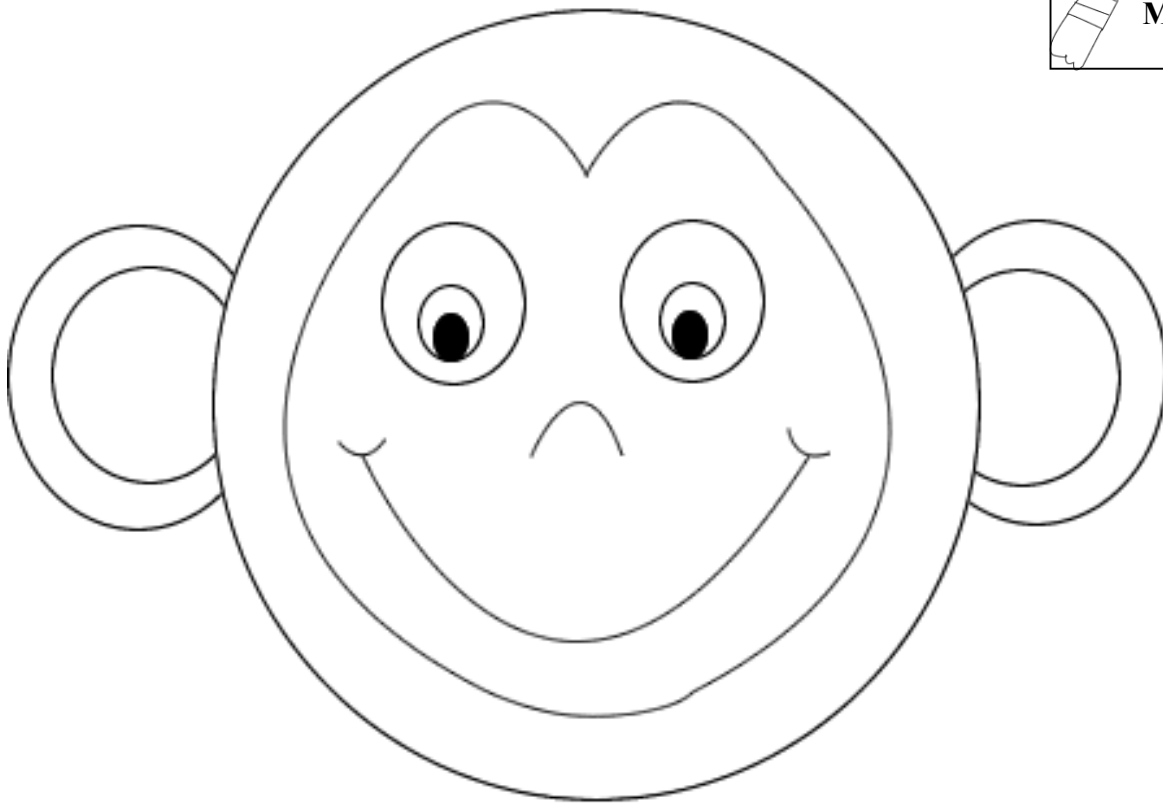
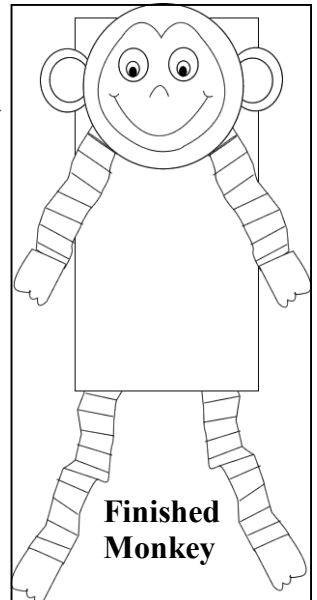
**mantle** - a rocky layer located under the crust

**outer core** - surrounds the inner core



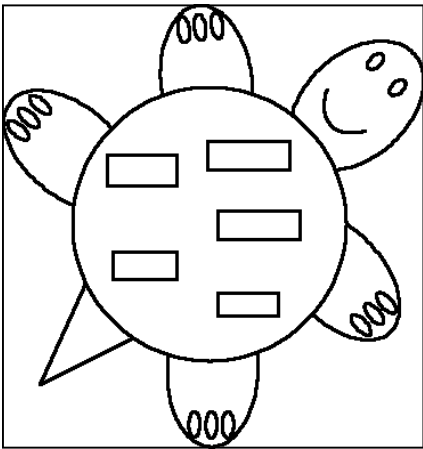
# Monkey Puppet

Color the outer edge of the monkey dark brown and the inner part of the ears and face a light brown. Color the hand and feet pieces dark brown. Cut four 11 1/2 X 1 1/2 inch wide strips of brown construction for the arms and legs of the monkey. Fold the strips accordion style. Glue the hand and feet pieces to the end of the strips. Glue the other end of the strips to the paper bag. Glue the face on the top of the bag.

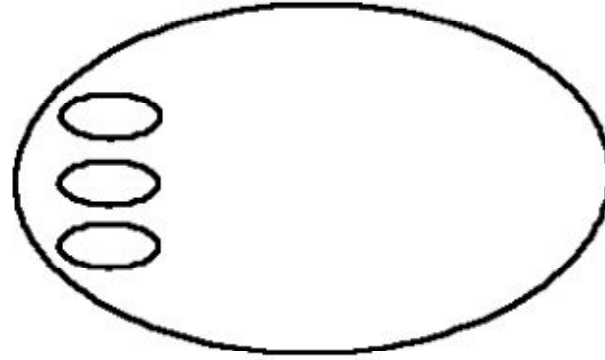
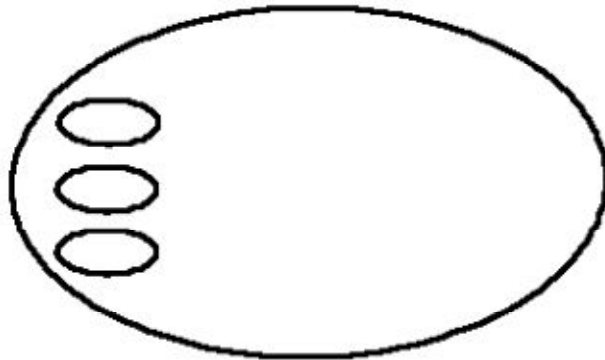
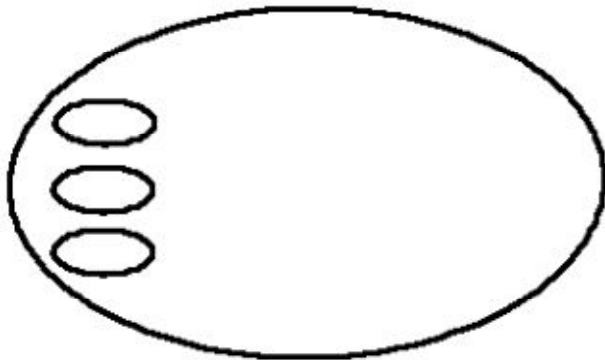
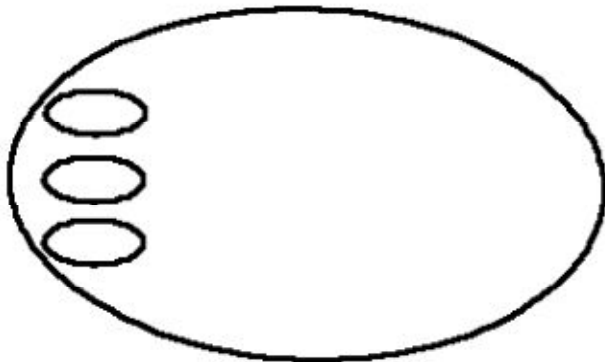
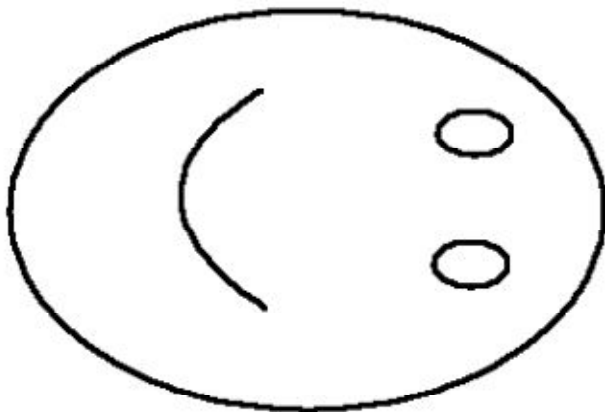
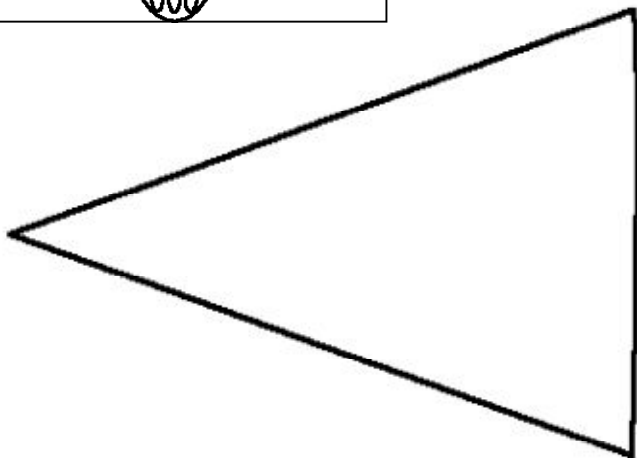


# Turtle Craft

Draw rectangular squares on the white paper plate with the green marker. Color the paper plate and body parts with the green crayon. Cut the body parts out and glue them underneath the paper plate.



Finished Turtle.

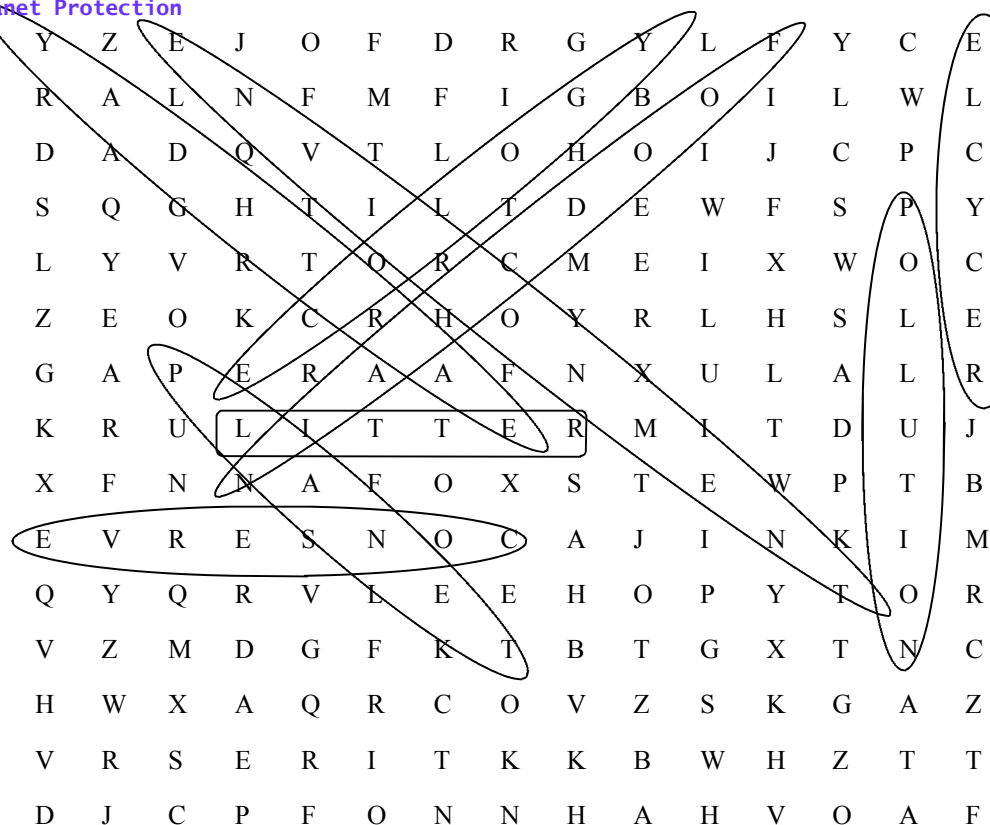


## Tiger Paper Bag Puppet

Copy the pattern on paper and color it orange. Cut it out. Glue it on a paper bag top and prepare an animal puppet show.







*Answers  
to Word  
Search*

## Duck Craft

### Duck

Paper plate

Scissors

Glue Stick

Stapler

Yellow and orange construction paper

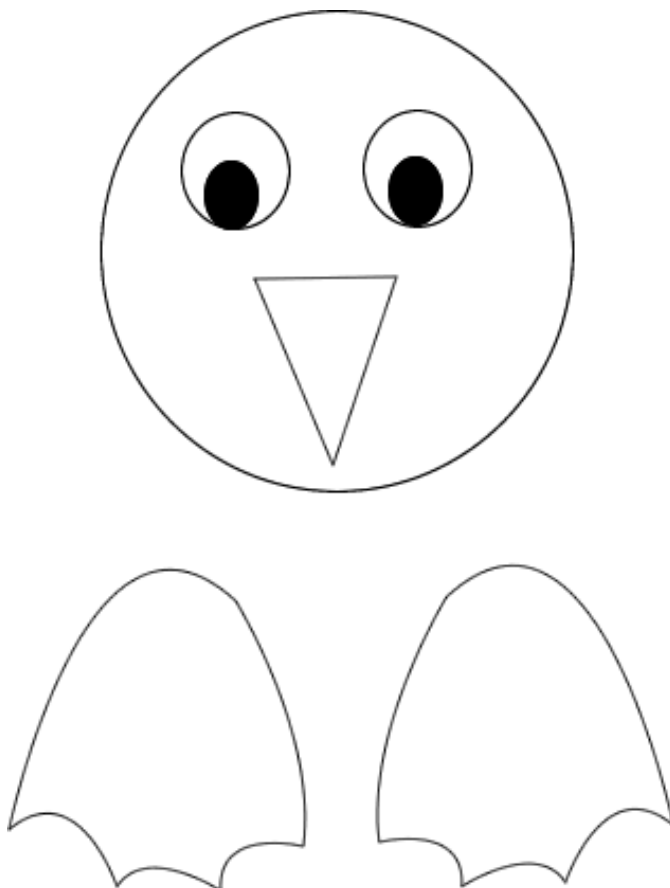
Crayons or markers

Color one side of the paper plate yellow. Take the paper plate and fold it in half.

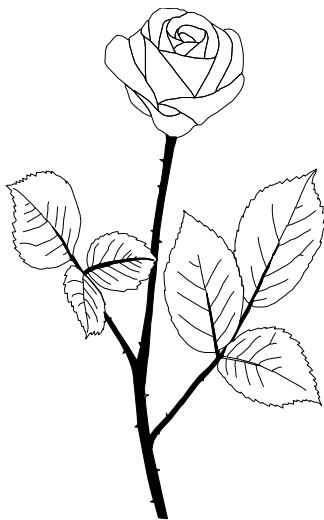
Color the face yellow. Color the beak and the feet orange. Cut them out.

Glue the feet slightly inside the lower part of the paper plate. Glue the face on the paper plate. Staple it around the edges.

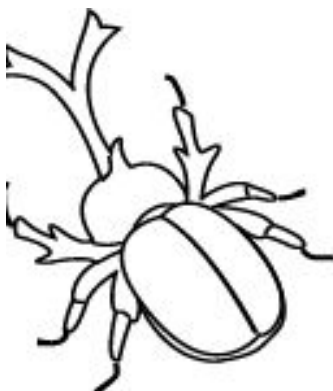
(optional) Add yellow feathers to the paper plate.



Food Chain    Color the items and place them together in a food chain.



Flower



Beetle



Skunk



Great Horned Owl

## Volunteer Hours– Calculate your hours of assisting your community

Hours Record for a 12 month calendar year    Date Started: \_\_\_\_\_    Date Ended: \_\_\_\_\_

Name: \_\_\_\_\_

[illegible]

TOTAL \_\_\_\_\_

Parent or Guardian Signature: \_\_\_\_\_

# ORDER FORM

Please complete this form and mail it or fax it to:

**Patchwork Designs, Inc.**

8421 Churchside Drive

Gainesville, VA 20155

(703) 743-9948 PHONE

(703) 743-9942 FAX

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone (     ) \_\_\_\_\_ Referred By: \_\_\_\_\_

Email Address: \_\_\_\_\_

Discover/Mastercard/Visa# \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ or Check # \_\_\_\_\_

Expiration Date: \_\_\_\_\_ Have you ordered before? \_\_\_\_\_

Item #	Description	Quantity	Unit Price	Total Price
PL06	Planet Protection Patch		\$1.75	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
			\$	\$
SUBTOTAL				\$
Regular Shipping & Handling (view chart on the next page)				\$0.00
Special Shipping (next day, priority mail etc)				\$0.00
TOTAL				\$



# Shipping Chart

If you would prefer Priority Mail, please add \$2.00 to the \$4.99 or above shipping category.

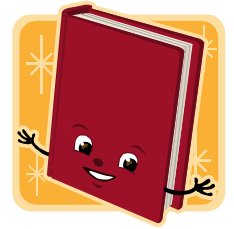
Next day service is an average cost of \$28.00 (USPS determines the pricing according to the zone and weight.)

Patches	
1-5	\$3.55
6-20	\$4.99
21-30	\$5.99
31-50	\$6.50
51-70	\$6.99
71-100	\$9.55
101-150	\$10.55
151-200	\$13.00
201-400	\$15.99
401-500	\$17.50
Over 500	Contact us for pricing

Kits or Manuals (shipped Priority Mail)	
1	\$6.99
2	\$9.25
3-5	\$10.75
6-8	\$12.75
10-12	\$15.75
13-20	\$22.25
21-23	\$24.00
Over 24	Contact us for pricing

Kits and manuals range from 30 to 62 pages in length (except the Patch Program Book, that is over 100). Therefore if you are ordering more than 2 kits or manuals, please use the above shipping chart. Patches, bracelet kits, and stamps can be added to any order falling within that price range. Otherwise, use the highest shipping amount on the chart according to the items ordered.

# Bibliography



## Books:

- Press, Judy. Alphabet Art with A to Z animal Art and Fingerplays. Nashville, Tennessee. Williamson Publishing, 1998
- Harlow, Rosie and Morgan, Sally. Garbage and Recycling. New York, NY: Kingfisher, 1995.
- Pfiffner, George. Earth-Friendly Outdoor Fun. New York, NY: Tenth Avenue Editions, Inc., 1996.

## Websites:

- <http://www.worldwildlife.org/endangered/whatis.cfm>
- <http://www.endangeredspecies.com/specieprofile.htm>
- <http://www.briomag.com/briomagazine/reallife/a0006130.html>
- [http://www.theideabox.com/Edible\\_Earth.html](http://www.theideabox.com/Edible_Earth.html)
- <http://food.kaboose.com/recipes/earth-day-recipes.html>
- <http://spaceplace.jpl.nasa.gov/en/kids/rocket.shtml>
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- [www.recyclenow.com](http://www.recyclenow.com)



**Patch and Program**  
**Created By:**  
**Cheryle Oandasan**