



## START

You are a Monarch butterfly living in North America. It is September and you must leave this place to start your long flight south. You may come upon many hazards in your 3,000 mile flight to Mexico. Pick up 5 symbolic "Monarchs" from the cup. Guard their lives carefully as you migrate with them through the game.

Roll the dice at each site to find out your fate. If you die, you must leave one "Monarch" in the cup.

## GOOD LUCK



## No 1. Monarch Crossing

You come upon a road. Not knowing the possible hazard, you start to cross it. Will you encounter a car, or will you make it across safely? Roll the dice to find out.

If you rolled a 2 or a 4, you got hit by a motorcycle or car, oh no! Put a "Monarch" in the cup and move on.

If you rolled anything else, you survived! Fly on!





## No. 2 - Will You Be Dinner?

A Blue Jay sees you as you roost. Is it an older Blue Jay that learned from the last Monarch it tried to eat? If so, it will leave you alone. Or is it a younger Blue Jay who has not yet learned of your poisonous toxin? Roll the dice to find out.

If you rolled a 2, 3, 4, 5, or 6, you survived! Fly on!

If you rolled a 1, then you were a snack for a young Blue Jay (who won't be feeling so well). A lesson the Blue Jay will soon not forget. Put a "Monarch" in the cup and move on.



## No. 3. Stormy Skies

Butterflies do not do well in the cold. An early winter storm hits, so you stop until it is over. Are you able to keep warm enough to survive, or will a heavy frost kill you?

If you roll a 3 or a 2 (32° Fahrenheit or 0° Celsius, freezing point), you have frozen to death. Put a "Monarch" in the cup and move on.

Otherwise you survived! Fly on!





## No. 4 - Nabbed in a Net?

Children sometimes see beautiful, colorful butterflies and want to add them to their collections. One child swings his net. Does he catch you, or does he catch the Painted Lady butterfly next to you?

If you rolled an even number, you escaped. Fly on!

If you rolled an odd number, you got caught. Oh no! Put a "Monarch" in the cup and move on.

What could YOU do instead of capturing the butterflies to add to your collection?

You could take a picture!



## No. 5 - Windy Weather

You only weigh .4 gram, which is less than the weight of a paperclip. If it gets too windy you can be blown off course and never reach the central Mexican Mountains. Will the weather stay calm, or will you be blown away?

If you rolled a 5 or 6, you were blown out into the middle of a large lake and drowned. Oh no! Put a "Monarch" in the cup and move on.

If you rolled anything else, you survived! Fly on!





## No. 6 - Science Project

Along your journey you stop to refuel. You are sipping nectar when you see a scientist with a net. Will you be captured and tagged or will you avoid the net?

If you rolled a 3, you were caught by the scientist for research. A sticker was put on your wing and you were set free. Take a "Monarch Tag" from the cup.

If you rolled anything else, you escaped capture. Fly on!



## No. 7 - Sick Butterflies

Monarchs can contract a protozoan parasite called OE (*O. elektroschirrha*). If you get it, you can pass it on to eggs and caterpillars using the milkweed plants you visit. Are you infected with this parasite?

If you roll an even number, you do NOT have OE! Fly on!

If you roll an odd number, you have contracted the parasite, eventually become weak, and die. Oh no! Put a "Monarch" in the cup and move on.





## No. 8 - Big Peaks

As you cross over the U.S. border into Mexico, you start to see mountains up ahead. Flap as hard as you can. Are you strong enough to fly to the altitude of around 3,600 meters to get to your wintering grounds?

If you rolled a 6, you just couldn't make it. Put a "Monarch" in the cup and move on.

If you rolled anything else, you survived! Fly on!



## No. 9 - Is There a Place for You?

Illegal logging has taken place in the small area of mountain forests where you need to spend the winter. Are there enough Oyamel trees left for you to find a spot to overwinter?

If you rolled a 1 or 3, it was your unlucky day. Your forest is gone! Put a "Monarch" in the cup and move on.

If you rolled anything else you survived! Fly on!





## No. 10 - Beware

As you spend the next 4 months (November to March) roosting in the Oyamel trees at your wintering grounds, beware of predators! Black-backed Orioles and Black-headed Grosbeaks are the two birds that like to feast on Monarchs!

If you roll a 1, 2, or a 5, you were eaten by a bird! Put a "Monarch" in the cup and move on.

If you rolled anything else you survived! Fly on!



## No. 11 - Spring has Sprung

Winter is over and it is time to fly north and look for a mate. After mating, female Monarchs need to find milkweed to lay their eggs (up to 500) one egg at a time.

If you rolled an odd number, you are a male, have become weak and will die. Put a "Monarch" in the cup and move on.

If you rolled an even number, you are a female and need to find milkweed for your eggs. Fly on!





## No. 12 - Finish

If you have any “Monarchs” left after your long, hazardous journey, they have survived to begin the generational cycle again! Now your children, grandchildren, and great grandchildren will continue flying north throughout the summer.

**Congratulations!** Please sit down with the rest of your “Monarchs” and wait for everyone to finish!

