



## The Seasons of The Year

### What I Will Be Learning In This Mastery Badge:

In this mastery badge we will discover some of the characteristics of each season.

### What This Packet Includes:

It is important that you complete all aspects of this packet so that you gain the knowledge and skills that we are working on.

- I. **Discovering Lab**  
A discovering lab is a fun, introductory lab, where we discover the knowledge on our own.
- II. **Video Instruction**  
You will watch a video presented by Mr. Bertoch, and answer questions about it.
- III. **Literacy Practice**  
Reading and writing are critical life skills, and also very important to science. You will read the assigned article and complete a writing prompt.
- IV. **Applying Lab**  
An applying lab is how you pass off the Mastery Badge. It serves as the quiz. It is a hands on demonstration that you have mastered the skills and content of this badge.

### Key Things We Will Learn In This Mastery Badge

Some of the most important things we will learn in this mastery badge:

- Many parts of the world experience changing seasons.
- These seasons are often categorized as summer, autumn, winter, and spring.
- The seasons have predictable patterns.
- The seasons are caused by the Earth orbiting the Sun.

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

Date: \_\_\_\_\_



# Discovering Lab

Learning Through Hands  
On Activities



## Discovering The Seasons

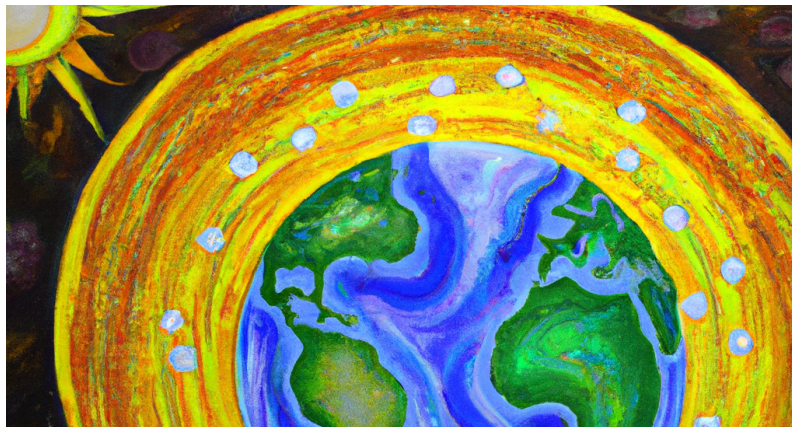
Making your own discoveries.

Scan This QR Code To Watch Mr. Bertoch Give You Directions For  
This Assignment







### The Earth Orbits The Sun Causing Seasons

We live on a planet in outer space called Earth. Our home planet orbits a medium-sized star called the Sun. It takes the Earth one year to complete each trip around the Sun. One effect of these trips around the Sun is that many parts of the world experience predictable seasons.



## The Characteristics of Each Season

Complete the following chart with some of the characteristics of each season.

	Season	Characteristics of This Season
	<b>Summer</b>	<b>Some things I observe in the summer are...</b>  The summer is very warm and sometimes even hot. There are lots of plants and animals moving around.
	<b>Autumn</b>	<b>Some things I observe in the summer are...</b>
	<b>Winter</b>	<b>Some things I observe in the summer are...</b>
	<b>Spring</b>	<b>Some things I observe in the summer are...</b>



## Questions That Make You Think:

Always answer thinking questions using complete sentences.

1. Why do you think the seasons change?

2. What do you think is the biggest difference between each of the seasons?

3. Explain how the seasons affect plants and animals.

4. Draw and label a picture of your favorite season. Include at least three plants and three animals.

# Video Instruction

## Reviewing The Teacher's Instruction At My Own Pace



## Handsome Science Teacher One Take Videos



**Good Job On Completing The Discovering Lab!**  
Now let's connect your discoveries to the vocabulary. Mr. Bertoch has created a video for you to watch.

**Take Your Time, Pause And Rewind As needed**  
You are not in a hurry! It is more important that you understand the video than that you finish it quickly. Take your time. If you don't understand something, pause the video and discuss with an adult.

When you finish this video, you should have a good understanding of the concepts that have been taught. If you find yourself confused, rewind, and rewatch.

## The Video For This Mastery Badge Can Be Opened Using This QR Code

This Mastery Badge includes one video:



Watch The Assigned Science Video  
Scan This QR Code To Open And Watch The Assigned Video For This Mastery Badge

### Check Point

**I watched the video carefully and understood what Mr. Bertoch taught me.**  
(If not, that is okay. Watch the video again, and discuss it with an adult)

## What I Learned From This Video



One very powerful way to help yourself remember what you learned from the video is to summarize it in your own words and in the form of pictures.

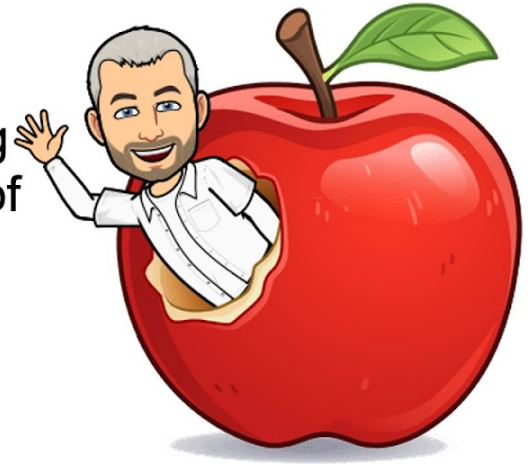
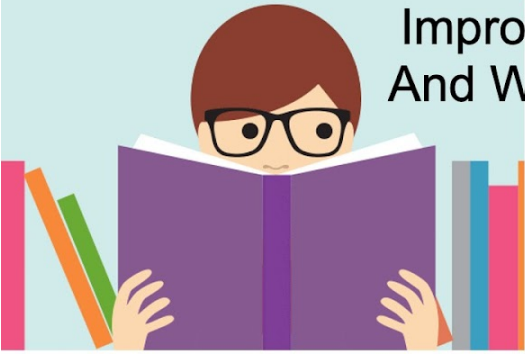
Write one sentence in your own words explaining what you learned from the video. Then draw a picture of something you learned from the video.

What I learned from this video (One Sentence):

A picture of something I learned from the video:

# Literacy Practice

Improving Our Reading  
And Writing In Search of  
Knowledge



## Activity: Reading And Writing



**Directions:** Reading and writing are very important life skills. Good scientists must be able to learn through reading and communicate their own discoveries through writing.



Scan This QR Code To Watch Mr. Bertoch Give You Directions For This Assignment

### 1. Practice Reading For Understanding

Read the article below **for understanding**. Reading for understanding means that you take your time and monitor your own learning. If you get to the end of a sentence and you do not remember or understand what you read, **re-read it**.

### 2. Practice Writing To Communicate

Complete the writing prompt below. Do your very best to write clearly so that others will understand what you are saying. This means using correct spelling, grammar, and writing, taking your time to think about the best ways to clearly communicate to others the main ideas that you are trying to get across to them.



Read The Assigned Article Carefully For Understanding.

<https://handsomescienceteacher.com/Online-science-classes-kids/what-causes-the-seasons/>

Scan This QR Code To Open And Read The Article That Goes With This Mastery Badge

### Check Point

Let's make sure that you really did read for understanding!

Remember that it is important to hold yourself accountable to a high standard and to take pride in your own success as a learner.

**I Read For Understanding. I did not skim the article. I understood the material that the article discussed.**

### Quiz Time

Complete the quiz at the end of the article and post your score in the box below. Your goal is to get at least 75% on the quiz. Did you accomplish this goal?

%

### Now Let's Write To Communicate

Remember that when you write to communicate you are taking your time, and explaining the topic in a detailed and concise way. Don't rush! You are not in a hurry. Think about what you are going to say, and plan how you will say it. So that someone else who reads your sentences will understand them easily.

**Writing Prompt:** Write two sentences describing what causes the seasons.



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

Date: \_\_\_\_\_



## Applying Lab

Proving That We Can Do It Ourselves



## Applying The Seasons

Applying What We Have Learned.

Scan This QR Code To Watch Mr. Bertoch Give You Directions For This Assignment



## An Annual Community Picnic

Mayor McSnuddler of your local town wants to schedule an annual picnic to bring the community together. Mr. McSnuddler insists that the picnic should be held on January 15th each year, which is the anniversary of the day his dear mother first baked him his favorite type of pie. The Mayor insists that everyone in the town must come to the park in shorts and t-shirts, which is what he was wearing back then, and enjoy sitting on the lawn eating pie and playing lawn games.

## Convince The Mayor That January 15th Is Not The Best Date For His Picnic

The mayor is used to getting his way and refuses to listen to reason! You must convince him that a picnic in January is not a good idea. Create and label a detailed diagram for the Mayor showing him how the seasons work. Then recommend a better date for his picnic.



**Congratulations! You Have Completed The Entire Mastery Badge**

You have worked really hard to earn this mastery badge. More importantly, you have worked hard to earn your knowledge!

**Time To Evaluate Your Work**

Check each of the following to evaluate your work:

1. Did you do every assignment?
2. Did you read the assigned article?
3. Did you watch the assigned video?
4. Did you answer all the questions using complete sentences?
5. Are your answers accurate?

**My Self-Evaluation:**

Based on the criteria listed above, I believe I have passed off this Mastery Badge because...  
(Be detailed and specific)

**Mastery Badge Counselor Evaluation:**

I have reviewed this student's work. Based on the criteria listed above I hereby certify that they have passed off the Mastery Badge because... (Be detailed and specific) Note: Any adult may serve as a Mastery Badge Counselor, so long as they are committed to ensuring the highest standards of excellence.

\_\_\_\_\_  
Student's Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature of Mastery  
Badge Counselor

\_\_\_\_\_  
Date

## Certificate For Your Homeschool Records

The following certificate which has been awarded through self-evaluation by the student, and also certified by a mastery badge counselor proves that the student listed thereon has completed all the work and has mastered all the concepts for the specified topic.

**Keep this on file as evidence of your successful completion of this topic.**

If audited by the State, these certificates stand as evidence that you have worked on and successfully completed a rigorous science curriculum.

