



## Living Things Have Needs

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

In this mastery badge we will discover how plants and animals thrive when their needs are met.

### 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:

- Plants and animals have several needs that must be fulfilled in order for an organism to thrive.
- Many of these needs are common and are shared across most or even all organisms.
- Some needs are specific to only a few or to a single organism.

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

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



# Discovering Lab

Learning Through Hands  
On Activities



## Discovering The Needs of Living Things

Making your own discoveries.



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

### Living Things Have Needs

Each living thing is unique and this means that its needs are unique. However, the needs of many of these living things are shared in common. For example, all living things need energy, and most living things require oxygen. On the other hand, some of the needs of living things are unique only to them. While most living things will do just fine without eucalyptus leaves, a koala will die without them.




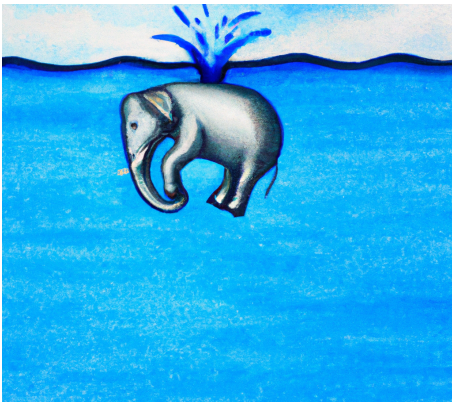


## Using Our Imagination

Denying an animal one of its needs would be cruel. For this lab we are going to use our imagination and imagine what would happen if we to stop plants and animals from getting one of the things it needs.

	Need	What if this need isn't met?
	Whales need water.	<b>What would happen if this need wasn't met?</b>
	Pandas need bamboo.	<b>What would happen if this need wasn't met?</b>
	Palm trees need warm tropical weather.	<b>What would happen if this need wasn't met?</b>



	Observation	What The Message Means
	Babies need milk (or formula).	<b>What would happen if this need wasn't met?</b>
	Flowers need insects to spread their pollen.	<b>What would happen if this need wasn't met?</b>
	Dogs need water.	<b>What would happen if this need wasn't met?</b>
	Elephants need dry land.	<b>What would happen if this need wasn't met?</b>





## Questions That Make You Think:

Always answer thinking questions using complete sentences.

1. You are a living thing. What are some of the needs that you have?

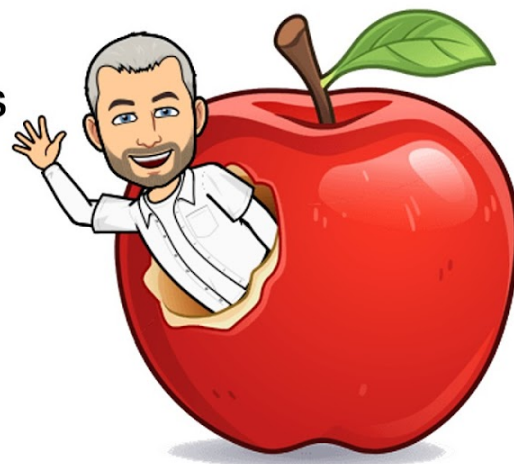
2. Which of your needs do you think are most important? Explain your answer.

3. What would happen to you if your needs were not met? Explain your answer.

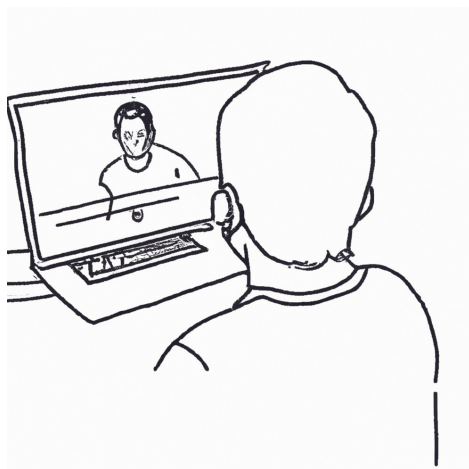
4. Can you think of any needs that another living thing has, that are different from your own, such as a plant? How and why are the needs of this living thing different from yours?

# 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.

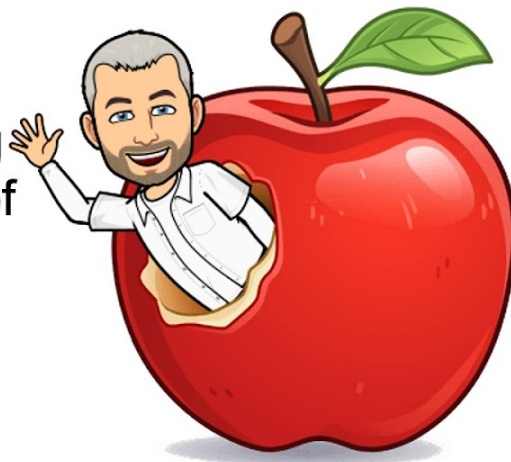
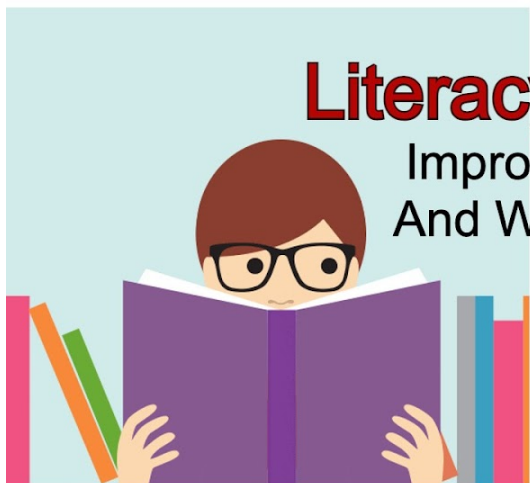
What I learned from this video (One Sentence):

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/living-things-have-needs/>

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 how the needs of living things must be met in order for the organism to thrive.

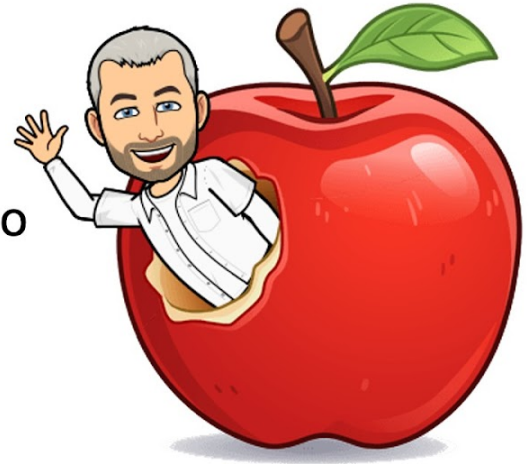
Name: \_\_\_\_\_

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



## Applying Lab

Proving That We Can Do  
It Ourselves



## Applying Animal Senses

Applying What We Have Learned.

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



## Welcome To Trout & Trout Law

We are so glad you have joined the law firm of Trout and Trout! Welcome aboard! As a new attorney, we have hand-picked your first case. You will represent a family of fish who have been banned from the water and forced to wear pants.

### Congress Passed The “Fish Must Wear Pants Act”

As you have undoubtedly read in the newspaper, Congress recently passed a law forcing all fish to wear pants, to get jobs, and to act like “regular people.” The fish don’t like wearing pants. They complain that the pants make them itchy. Which is the main thing that bothers them... itchy pants. A less important issue that we should also probably mention is that fish die when they are out of water... but mostly we think it is itchy pants that will win this case... But as lead attorney, if you think we should focus on the fact that they are all dying... well that is okay too I suppose.



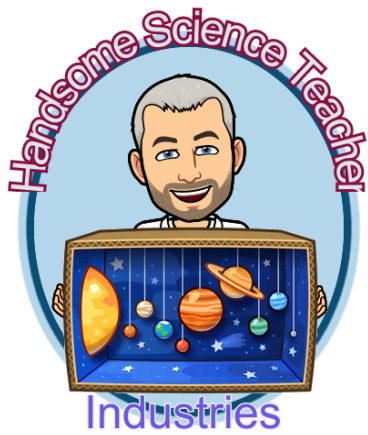


### **Prepare Your Opening Arguments**

When you go to trial you will be given five minutes to argue your case before Judge Grizzwald B. Bearinson. Your goal is to convince the judge that fish should be allowed to remove their itchy pants and once again swim freely in the water.

**Note:** Keep your clients away from the judge! He has been known to eat fish!

Prepare a five-minute speech that convincingly explains why fish need to be in the water, and why they should not be forced to wear pants.



### **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.

