

Name:

Class Period:

Date:

Habitat Hunters

Hi! I am Wiley Weasel, the real estate agent for this area! My clients, the creatures below, are looking for the perfect home in the lake. Can you help me match them to the parts of the lake that have the qualities they need?

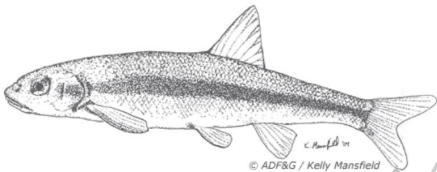
Think about temperature, sunlight, and what they like to eat, as well as the kinds of homes they build.

You need to have algae for sure, then at least 1 plant, 1 fish, and 1 other creature (either mammal, insect, reptile etc.) You can have more, but none of them want neighbors touching their space, so they can't overlap.

Cut out the "clients" or draw them on your lake on the last page



Client Lake Chub



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Dream Home Wishlist

Light

We need lots of light!

Temperature

As warm as possible! We have beachfront dreams!

Oxygen

Meh, we can handle low oxygen environments

Client Pygmy Whitefish



Dream Home Wishlist

Light

We're pretty flexible, but we prefer some light

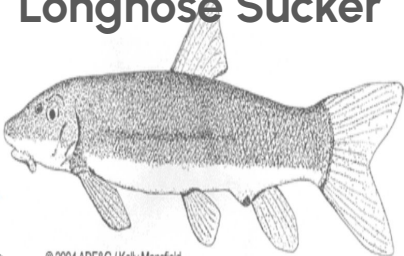
Temperature

Wherever the crustaceans are, we want to be there. So medium cold?

Oxygen

WE love silt, so low oxygen areas are ok with us

Client Longnose Sucker



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Dream Home Wishlist

Light

Ugh. No. As dark as possible is best

Temperature

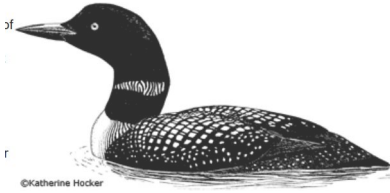
Cold is best. We love cold.

Oxygen

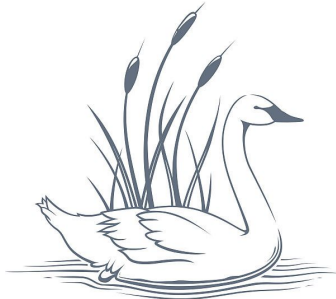
OMG I need all the oxygen I can get. Yum.

Client

Common Loon



Trumpeter Swan



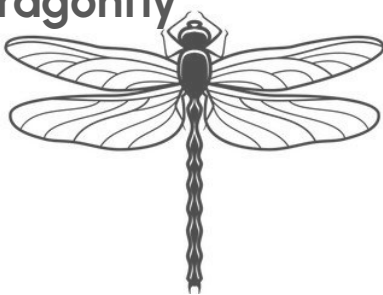
Client

Osprey



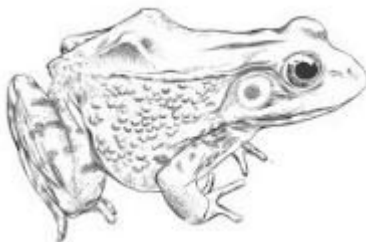
Client

Treeline Emerald Dragonfly



Client

Wood Frog



Client

Dream Home Wishlist

Light

We need lots of light to see, we also need about 400 meters of clear space for take off

Temperature

Funny you should mention that... some of us migrate to coastal regions when it gets too cold

Oxygen

We actually prefer islands if we can get them. Lots of O₂

Dream Home Wishlist

Light

We like to have privacy on top of the water, so if we can have plants to shield us that's better

Temperature

Oh we are only interested in a summer home. We have another place further south for the winter. We don't do cold.

Oxygen

O₂ is what we spend a lot of time in, just watching the world go by and sunbathing. WE are a mated pair, so space is a must.

Dream Home Wishlist

Light

We need to be up as high as possible. We love the sweeping views, and lots of light.

Temperature

Some of us migrate, some don't. As long as there is fish, we're set.

Oxygen

We are really into showy airshows and tricks. Oxygen is the BEST.

Dream Home Wishlist

Light

No light please. We like the dark for eggs.

Temperature

Colder the better

Oxygen

We get most of our oxygen from plants, so as long as there are plants we're good with a lower oxygen area.

Dream Home Wishlist

Light

Ooh yes, we love sunlight

Temperature

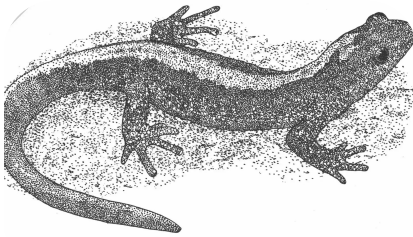
Warm is best. Though in the winter we actually go in for cryogenics

Oxygen

We can survive without oxygen for months, so low oxygen areas are fine.

Long Toed Salamander

Client



Light

We actually want to SEE the water, but mostly be on the land. So we need LOTS of light

Dream Home Wishlist

Temperature

Warmer the better.

Oxygen

We need open air, with some leaves for snuggling, or just tree cover in general is great.

Muskrat

Client



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Light

We are pretty shy. We prefer dawn and dusk. Our lakeside home needs protection

Dream Home Wishlist

Temperature

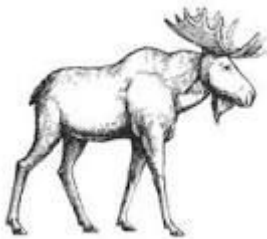
The cold never really bothered us anyhow! (Our fur is dense and keeps us warm)

Oxygen

We like swimming, and our house can be in the water, but it needs to be close to the air

Moose

Client



Light

We can handle anything. WE just love snacks (plants) Underwater plants or shoreside.

Dream Home Wishlist

Temperature

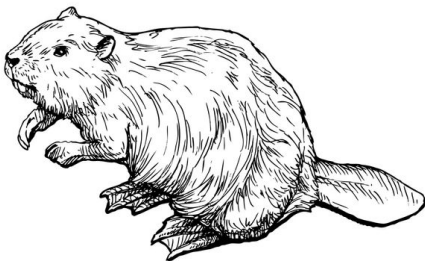
As long as the snacks are good, the temperature doesn't matter.

Oxygen

Plants make oxygen, so we like that. Yummm! (We need high O₂ areas to live, but we can hold our breath and dive for the best snacks)

Beaver

Client



Light

We can tell already that this lake isn't big enough. Needs more light, more water. We will get started remodeling asap

Dream Home Wishlist

Temperature

We actually use the lake like a fridge in the winter, so our trees stay fresh. We don't want to be too deep though

Oxygen

We need good O₂. Our home needs to be ½ in and ½ out of the water

Leech

Client



Light

Vampires do not do light. Eww.

Dream Home Wishlist

Temperature

We like the water cold and the blood warm. Yumm.

Oxygen

We get oxygen from blood... so we can handle low oxygen content

We are the worst neighbors.

Client

Star Duckweed



Lemna trisulca
(star duckweed or ivy-leaf duckweed)

Light

We need light. We prefer to be on top of the water, so we can grow and expand to fill the space

Dream Home Wishlist

Temperature

We prefer 5 °C to 32 °C

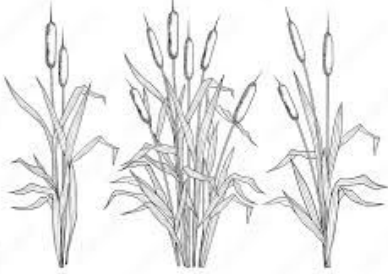
Oxygen

We thrive on "dirty" water and can actually clean up areas with low oxygen content. Moose eat us.



Client

Cattail



Spikerush (Cattail)

Light

WE love light!!! Our preference is FULL sun, with a tiny bit of shade to avoid leaf scorch.

Dream Home Wishlist

Temperature

We prefer 18 °C to 24 °C

Oxygen

We actually work like a "snorkel" taking Oxygen from the air to water areas with low O₂ content.



Client

Equisetum



Light

We can handle lots of different amounts of light. But we MUST have very wet soil..

Dream Home Wishlist

Temperature

We prefer 18 °C to 24 °C, but we can survive VERY cold temperatures

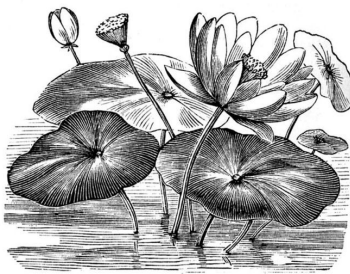
Oxygen

We prefer areas of very low O₂ content.



Client

Pond Lily



Light

We need full sun. We like to sunbathe for at least 6 hrs a day, then shade is ok.

Dream Home Wishlist

Temperature

We are picky about temperature. We need water that is at least 21 °C (70 °F) during the growing season, and 10 °C (50 °F) in winter

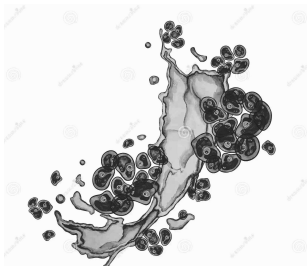
Oxygen

We need lots of oxygen. We understand that our roots are often in low O₂ environments, so we pump our own.



Client

Algae



Light

Light is VERY important to us! We use it to make our food!

Dream Home Wishlist

Temperature

We thrive in temperatures between 15-25 C°

Oxygen

We make more oxygen than trees! They steal the glory, but we are the OG O₂ makers

ALGAE IS A REQUIRED PART FOR THE HABITAT

Name:

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Habitat Hunters

You need Algae, no matter what else you choose. You also need a minimum of 1 fish, 1 plant, and 1 other creature. (You can have more if they do not overlap)

Lake Bottom

Cut out (or draw) the different creatures in the correct part of the lake ecosystem



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Habitat Hunters

Record where you chose to put each thing in the lake ecosystem.

Name of creature/ thing (What did you pick for each category?)	Needs	Where in the lake? <small>Deep water? Shore? Middle? Bank? Bottom of the lake?</small>	Why did you choose that place?
Algae (Required for lake)	<u>Light:</u> <u>Temperature:</u> <u>Oxygen:</u>		
Plant: (need at least 1)	<u>Light:</u> <u>Temperature:</u> <u>Oxygen:</u>		
Fish: (need at least 1)	<u>Light:</u> <u>Temperature:</u> <u>Oxygen:</u>		
Creature (need at least 1)	<u>Light:</u> <u>Temperature:</u> <u>Oxygen:</u>		
Other: (Your choice, not required))	<u>Light:</u> <u>Temperature:</u> <u>Oxygen:</u>		

What is "lake stratification?" Why does it matter when we talk about ecosystems in and around a lake?