

What could cause an
ecosystem to be wiped out?

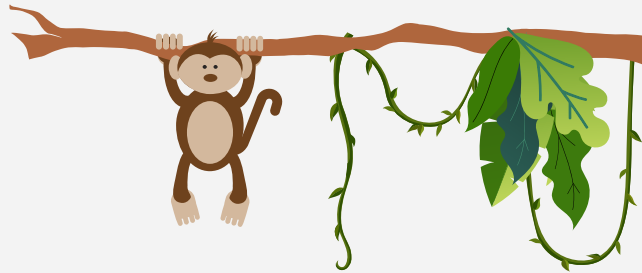
Ecology - Video 2



Ecological Succession

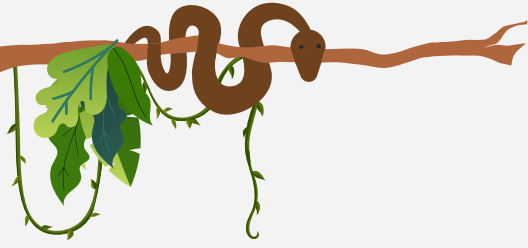
with the Amoeba Sisters





**Why does the order of
succession make sense?**





Notes Review

Primary succession - the filling up of NEW land

Pioneer species - the first species to populate an area (usually lichen)

Mature communities - more biodiversity in the area

Secondary succession - the filling up of land AFTER something wipes out and already mature community



The act of ecological succession



□ Something happens!

□ Is there soil?



Secondary succession!

□ Brand new land with no soil?



Primary succession!

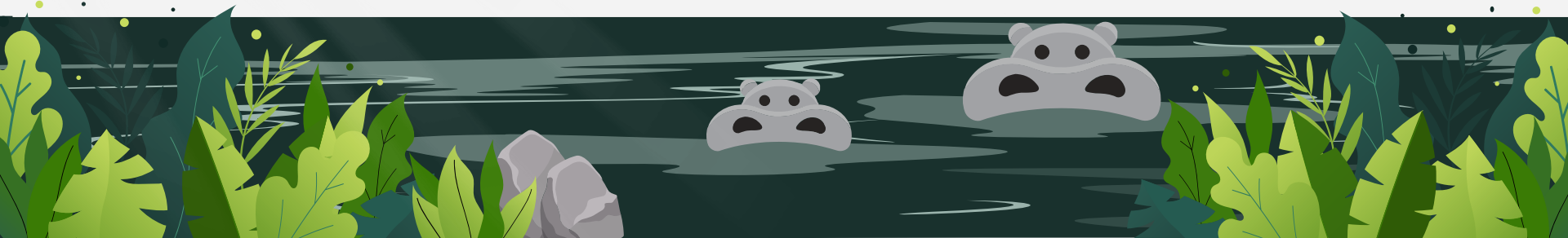
What allows species to survive
in this harsh environment?



Adaptations



**What adaptations are needed for a
species to survive this?**





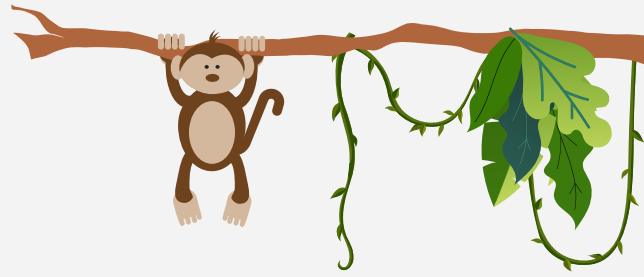
Research Into Adaptations

How do species (plants and animals) survive wildfires?

How do species (plants and animals) survive floods?

How do species (plants and animals) survive a hurricane?



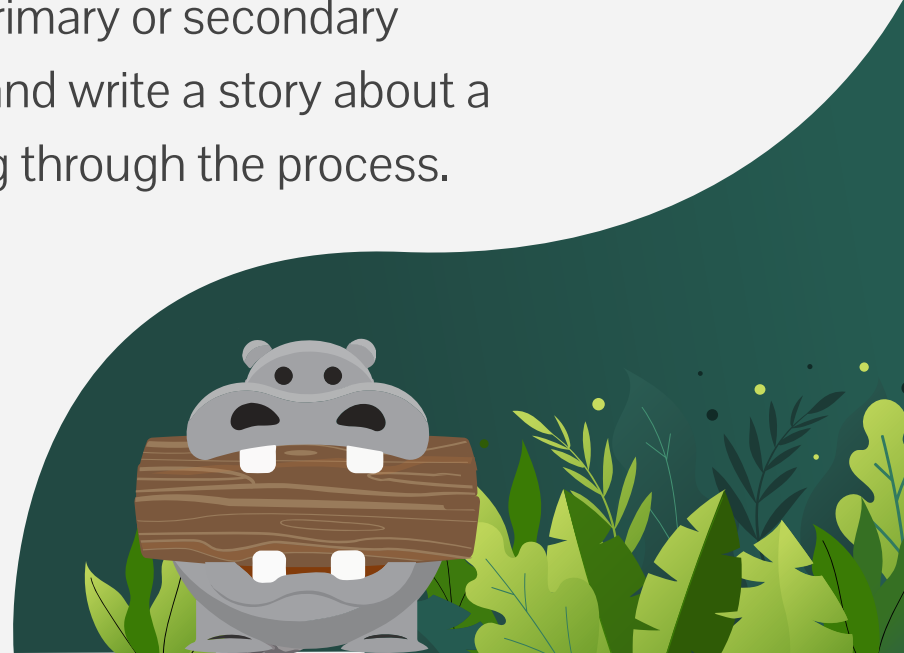


**How are adaptations and
succession connected?**



Story Time!

Pick either primary or secondary succession and write a story about a species living through the process.



Choose Your Path...



Primary Succession

- What lead to the new land to being created?
- Who comes first?
- What happens next?
- How do the species think about this process?

Secondary Succession

- What caused the ecosystem to be destroyed in the beginning?
- Who comes first?
- What happens next?
- How do the species think about this process?




Story Time!

Choose either primary or secondary succession and create a story that tells the succession process.


Describe what happened to cause succession to need to happen (new land or natural disaster), and then talk through how the ecosystem becomes a mature community once again.

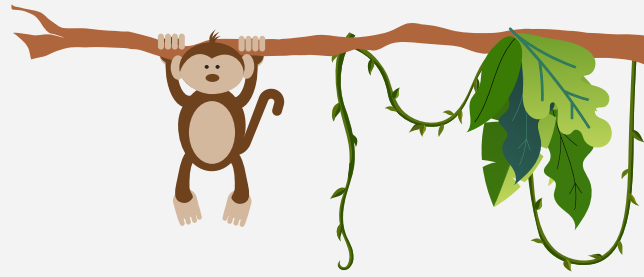
I am not worried about length, but want details and it should be in story form, not just a list of events.





What do you think is cooler:
primary succession or
secondary succession?





**What is the difference
between primary and
secondary succession?**





Links

Explore more about ecological succession by reading through these articles, watching these videos, and visiting the links provided.

Information on ecological succession:

- <https://news.uchicago.edu/explainer/what-is-ecological-succession>
- <https://www.khanacademy.org/science/biology/ecology/community-structure-and-diversity/a/ecological-succession>
- <https://www.nature.com/scitable/knowledge/library/succession-a-closer-look-13256638/>

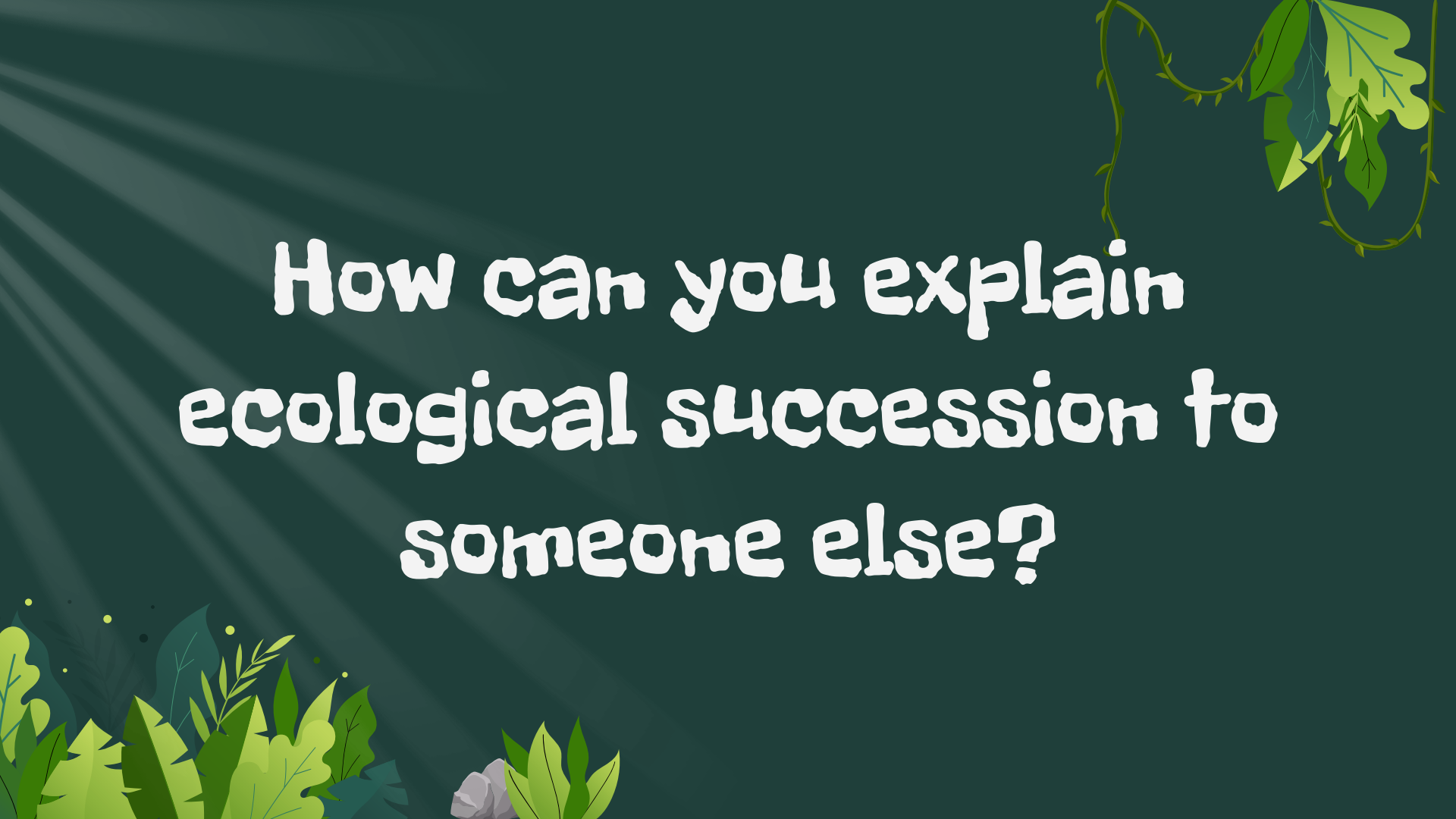
Games and interactives about ecological succession:

- Game on succession: https://www.biomanbio.com/HTML5GamesandLabs/EcoGames/succession_interactive.html
- Succession information and then game at the bottom: <https://www.texasgateway.org/resource/ecological-succession>
- Board game if you want to print it out and play it: <https://cpb-us-w2.wpmucdn.com/sites.stedwards.edu/dist/f/164/files/2012/11/Succession-lesson-plan-seo1jl.pdf>

<https://www.youtube.com/watch?v=jZKIHe2LDP8>

<https://www.youtube.com/watch?v=8ceDE01iWLE>



The background is a dark teal or forest green. Diagonal light rays, in a slightly lighter shade of green, emanate from the top left corner, creating a sense of depth and light filtering through a forest. Stylized foliage is present: in the top right corner, there are green leaves and a thin, winding vine; in the bottom left corner, there is a cluster of various green leaves and a small, light purple flower.

How can you explain
ecological succession to
someone else?