

# Episode 3 CARBON SOURCES: FIRE

## ESSENTIAL QUESTION: IS FIRE A FRIEND OR A FOE?

### Before-You-View-Video Activities

**Activity 1:** Increase your visual literacy and “warm up” by pondering what you already know about fire. Draw an icon that represents these words to you.

Fire	Campfire	Forest	Forest Fire
Go up in flames	Add fuel to the flames	Burnt	Burn out

Share drawings with others in your class. If you want to, you can redraw any icons that you see differently after sharing.

**Activity 2:**

Use this rectangle to think about what you already know about your relationship to fire. Use sketchnotes, i.e. **images** (icons) AND **words**. (You'll be adding info in later steps, so no need to fill the space.)



**IS FIRE A FRIEND OR A FOE?**

## Post-Viewing Activities

### Activity 3:

After viewing CARBON SOURCES: CAMPFIRES, add any new information from the video to your sketchnote.

### Activity 4:

Explore Fire Topics by taking notes on videos/articles. Use these or find your own on topics that interest you. Afterwards, go back to your initial rectangle and add more information if that helps you gather your thoughts.

If you'd like to add images to your notetaking, watch this video to learn how to start: *Improving Cornell Notes With Sketchnoting Techniques*. <https://www.youtube.com/watch?v=pZgMpjjgCRA>

Videos:

- Deforestation videos from PBS: <https://nm.pbslearningmedia.org/search/?q=deforestation&page=1>
- Fighting Fire With Fire (The Nature Conservancy) <https://youtu.be/slBXzeOQrww>
- Wildfires 101 (National Geographic) <https://app.fluentize.com/lesson/wildfires>
- The Science of Wildfires: Why They're Getting Worse (The Wall Street Journal) <https://www.youtube.com/watch?v=gN-T6NDWQ1g>

Articles:

- Causes and Consequences of Amazon Fires and Deforestation <https://www.reuters.com/world/americas/causes-consequences-amazon-fires-deforestation-2022-08-10/>
- Trees Power This Alarm System for Remote Forest Fires <https://www.snexplores.org/article/trees-power-this-alarm-system-for-remote-forest-fires>
- Cave Holds Earliest Signs of Fire Making in Europe <https://www.snexplores.org/article/cave-holds-earliest-signs-fire-making-europe>

### Activity 5:

Using the information from everything in this lesson, have a class discussion about the question, "Is fire a friend or a foe?" Add more to your sketchnote afterwards.

# Cellulose

It's the most abundant carb on Earth!



Cellulose is a chain of 1000's of glucose molecules!



- Herbivores
- Camels
  - Hippos
  - Cows
  - Pandas
  - Termites



# Fire



# CO<sub>2</sub> comes from **CAMPFIRES**



Cellulose puts "C" in my fire's CO<sub>2</sub>!

# Indirect Burning

