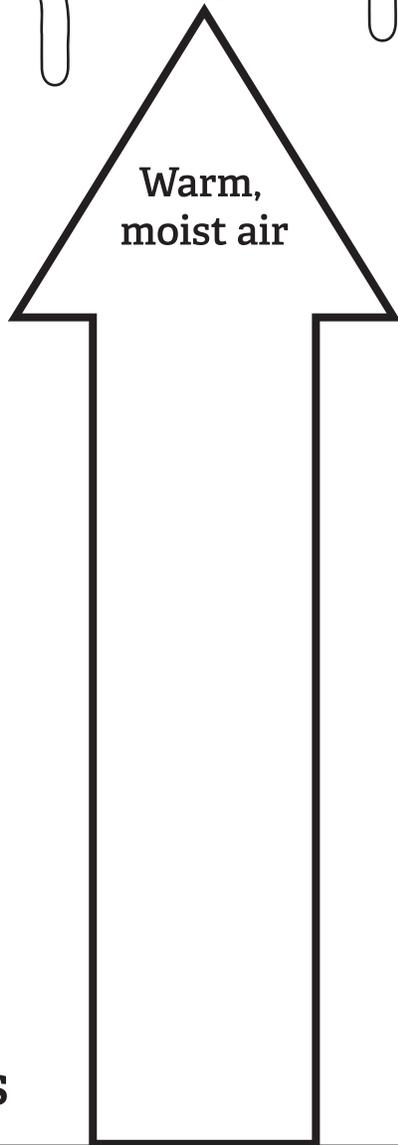
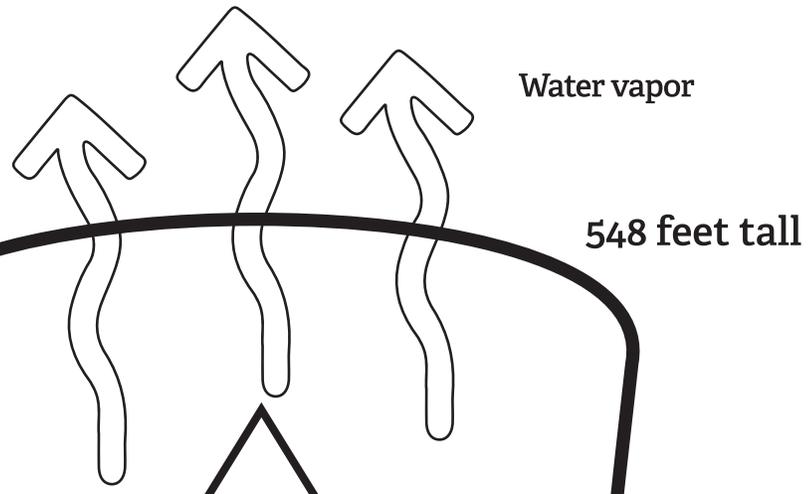
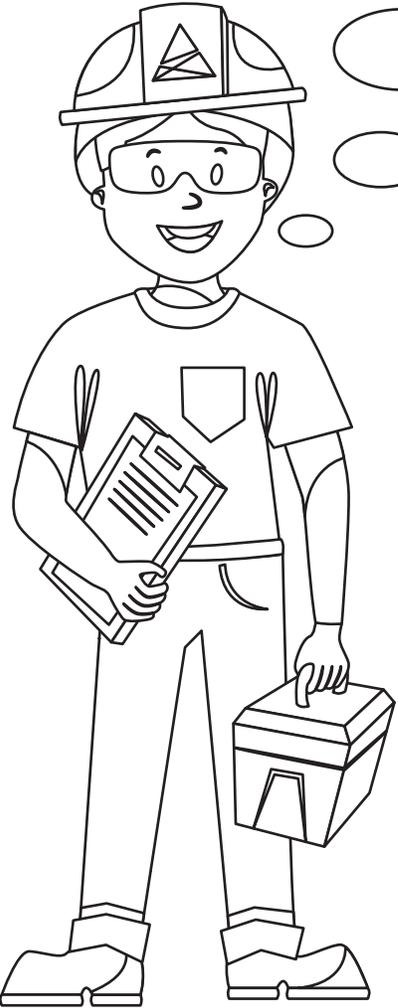


Natural Draft Cooling Tower

Use the diagram of the cooling tower to color the areas you think would be warm and cool, or just have fun and use your favorite colors.

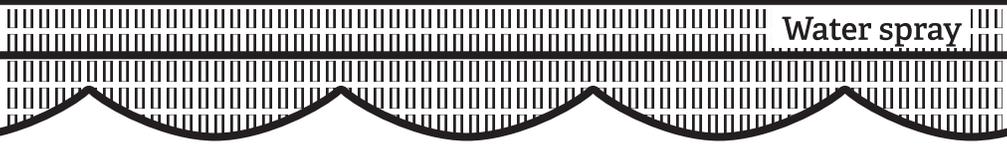


Sprinklers

Warm water coming from turbine building



Water spray



Cool water going to turbine building



Collecting Basin



Natural Draft Cooling Tower

What is a **natural draft cooling tower**? It's a concrete structure used to cool a lot of water in a power plant. Water comes in from a river or large body of water, and then pours into a big pool (**collecting basin**). The water travels through large pipes to the **turbine building** in the power plant to help cool off steam, and in the process is heated up to approximately 120 degrees Fahrenheit. Then the water gets pushed through large **sprinklers** and creates **water spray**, cooling off the water in the **collecting basin**. What doesn't stay liquid water, rises up through the cooling tower as **non-radioactive water vapor** or basically, clouds. Since it's perfectly safe, the clouds floats away or rain back down into the local water system. Last thing to remember - cooling towers aren't radioactive and not all nuclear power plants have **natural draft cooling towers**.

Use the diagram of the cooling tower to let the student color the areas they think would be warm and cool, or let them just have fun and use their favorite colors.

Non-radioactive water vapor - 110° F

548 feet tall

