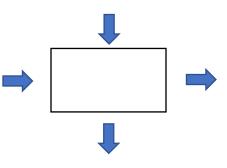
A STEAM Approach to Investigating the Hydrologic Cycle

Handout 3 – Painting Instructions and Prompts

Painting instructions

- Reflect on the observations that you made in the field.
- Choose one hydrologic process (condensation, precipitation, infiltration, runoff, or evapotranspiration) that you focused on
- Think of the canvas like a window into your understanding of this process.
- One approach is to think of the edges of the canvas like the edges of a 2D representation of a control volume illustrating this process
- Paint the primary factors affecting this process (what inputs and outputs enter your canvas "control volume" from the top, bottom, left and right edges?)
- Paint key characteristics of this process in the area that you observed
- Use the entire canvas; fill the canvas to the edges

Note: This practice is not about painting something beautiful. There is no right or wrong way to paint. The painting could be literal or abstract. The main criteria to follow is to explore one of five hydrologic processes.



Potential approach to painting: think of your canvas like a control volume. Consider what is entering and exiting the canvas control volume?

Sharing your painting prompts

• Describe what hydrologic process they chose to focus on. What were the key factors affecting the process? What are key characteristics of the process?

Group discussion prompts

- What, if any, scientific insights did you have during the process of drawing and painting?
- How did painting affect your understanding of the hydrologic cycle?