Rubric

Level 1: Beginning

- can identify the three states of matter: solid, liquid, and gas.
- can give examples of each state of matter, such as ice as a solid, water as a liquid, and steam as a gas.

Level 2: Developing

- can explain how particles behave in each state of matter.
- can describe how a substance can change from one state of matter to another, such as water freezing into ice or boiling into steam.
- can differentiate between physical changes, such as changes in state, and chemical changes, such as burning.

Level 3: Proficient

- can identify and explain the properties of matter, such as mass, volume, and density.
- can describe the processes of evaporation and condensation and their roles in the water cycle.
- can explain how changes in temperature and pressure can cause matter to change from one state to another.

Level 4: Advanced

- can describe the properties and behavior of matter at the molecular level.
- can predict the changes in state of matter that will occur given specific changes in temperature and pressure.
- can apply their understanding of states of matter to real-world scenarios, such as how to safely store and transport hazardous materials.