**Earth’s Surface Learner Outcomes**

**[4.ESS.1a]** Students will be able to about 70 percent of the Earth’s surface is covered with water and most of that is the ocean. Only a small portion of the Earth’s water is freshwater, which is found in rivers, lakes and ground water.

**[4.ESS.1b]** Students will be able to explain how Earth’s surface can change due to erosion and deposition of soil, rock or sediment. Catastrophic events such as flooding, volcanoes and earthquakes can create landforms.

**[4.ESS.2a]** Students will be able to explain how rocks change shape, size and/or form due to water or ice movement, freeze and thaw, wind, plant growth, gases in the air, pollution and catastrophic events such as earthquakes, mass wasting, flooding and volcanic activity.

**[4.ESS.2b]** Students will be able to explain how water, wind and ice physically remove and carry (erosion) rock, soil and sediment and deposit the material in a new location

**[4.ESS.2c]** Students will be able to explain how gravitational force affects movements of water, rock and soil.