**Guided Notes: Water and Climate Change**

Climate change is impacting the water cycle and \_\_\_\_\_\_\_ resources globally.

**Key Concepts:**

• \_\_\_\_\_\_\_ temperatures are causing more extreme weather events like droughts, floods, and wildfires.

• The global average temperature has been \_\_\_\_\_\_\_ since the year 2000.

• Climate change affects the water cycle by:

 - Increasing \_\_\_\_\_\_\_ rates

 - Changing \_\_\_\_\_\_\_ patterns

 - Melting snow cover and \_\_\_\_\_\_\_

 - Causing sea levels to \_\_\_\_\_\_\_

• Rising sea levels lead to:

 - Coastal \_\_\_\_\_\_\_

 - Salt water \_\_\_\_\_\_\_ into freshwater sources

 - Displacement of coastal \_\_\_\_\_\_\_

• About \_\_\_\_\_\_\_% of the world's population lives within 100 km of a coast.



**Real World Examples:**

1. Wildfires in California: Hotter temperatures and \_\_\_\_\_\_\_ conditions have led to more extreme wildfires, affecting air quality and forcing students to stay indoors.

2. Flooding of coastal areas: Rising sea levels are causing increased \_\_\_\_\_\_\_\_ in coastal towns, potentially impacting students' homes or favorite beach spots.

**Word Bank:**

water

rising

increasing

evaporation

precipitation

 glaciers

rise

erosion

 intrusion

populations

40

drought

flooding