**Guided Notes: Water Filtration**



Water must be \_\_\_\_\_\_\_\_\_\_ to remove \_\_\_\_\_\_\_\_\_\_ that are harmful to the environment and human health.

**Key Concepts:**

• Common household water purification methods include:

 - \_\_\_\_\_\_\_\_\_\_

 - \_\_\_\_\_\_\_\_\_\_

 - \_\_\_\_\_\_\_\_\_\_

 - Adding \_\_\_\_\_\_\_\_\_\_

• Water treatment plants use \_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_, and \_\_\_\_\_\_\_\_\_\_ processes to purify water.

• The two basic stages of wastewater treatment are:

 1. \_\_\_\_\_\_\_\_\_\_

 2. \_\_\_\_\_\_\_\_\_\_

• A \_\_\_\_\_\_\_\_\_\_ chamber removes large debris from wastewater.

• \_\_\_\_\_\_\_\_\_\_ is the solid waste produced during water treatment.

• \_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_ is more effective than trickling filters for treating wastewater.

• \_\_\_\_\_\_\_\_\_\_ is added as a final step to disinfect the water.

**Real World Examples:**

1. Portable water filters for hiking/camping: These small devices allow hikers to safely drink from rivers and streams by removing \_\_\_\_\_\_\_\_\_\_ from the water.

2. Home water filter pitchers: Many students may have these in their refrigerators at home to improve the taste and quality of their \_\_\_\_\_\_\_\_\_\_ water.

**Word Bank:**

purified

contaminants

distillation

filtering

boiling

chlorine

physical

chemical

biological

primary treatment

secondary treatment

grit

sludge

activated sludge

chlorine

contaminants

tap