Boiling Point Notes

Property of Matter:

- _____: The temperature in which a liquid turns to a gas
- Factors that affect boiling point (BP):
  - **Pressure**:
    __ pressure = __ BP
  - **Elevation:**
    _ elevation = __ BP
  - **# of molecules (salt, sugar, etc):**
    __ molecules = __ BP
  - **Type of_____:**
    Water vs oil

Separation Technique:

- A mixture of two or more substances that are both _____ can be separated if they have different boiling points.
- **Evaporation:**
- **Distillation:**

Real World Examples:

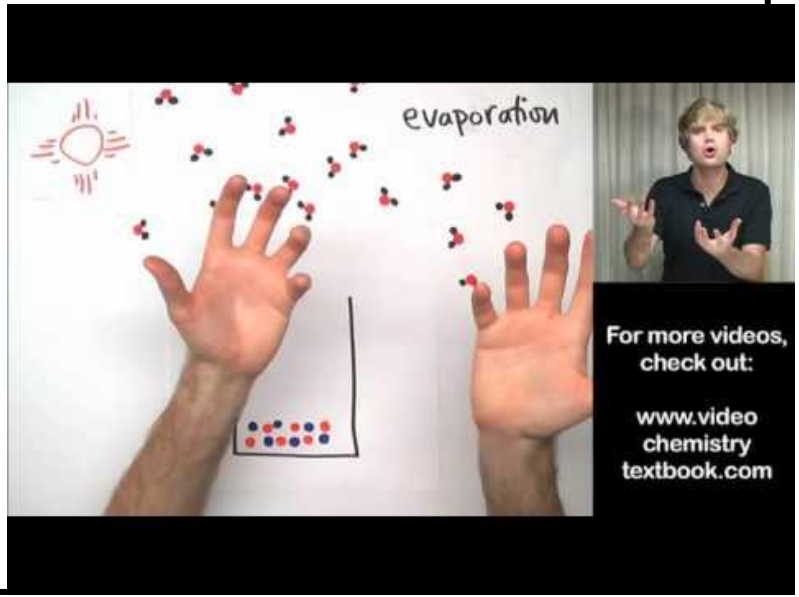
- _____ (Purify Salt Water)
- Separation of _____
- _____ Treatment Plant

Property of Matter:

- **Boiling Point:** The temperature in which a liquid turns to a gas
- Factors that affect boiling point (BP):
  - **Pressure**:
    ↑ pressure = ↑ BP
  - **Elevation:**
    ↑ elevation = ↓ BP
  - **# of molecules (salt, sugar, etc):**
    ↑ molecules = ↑ BP
  - **Type of Solvent:**
    Water vs oil

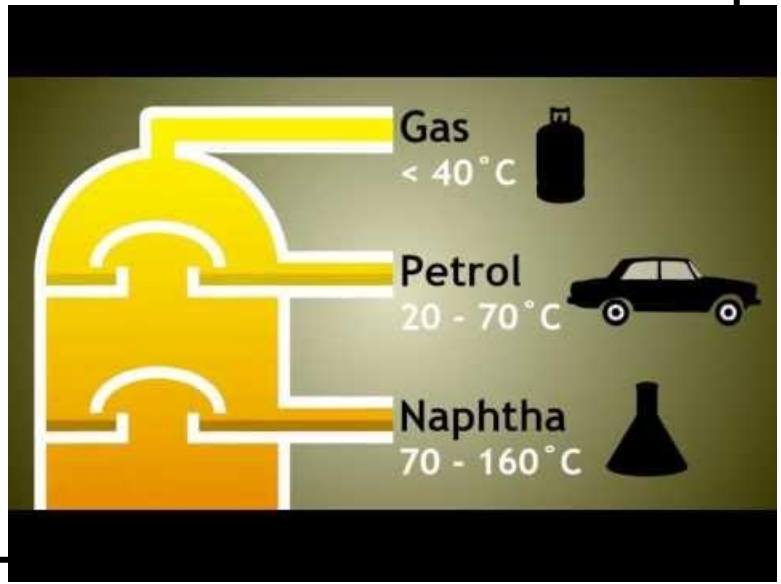
Separation Technique:

- A mixture of two or more substances that are both **soluble** can be separated if they have different boiling points.
- **Evaporation:**
  - **Removes liquids from a mixture to obtain a solid.**
- **Distillation:**
  - **Heating a mixture to collect the liquid (vapor).**



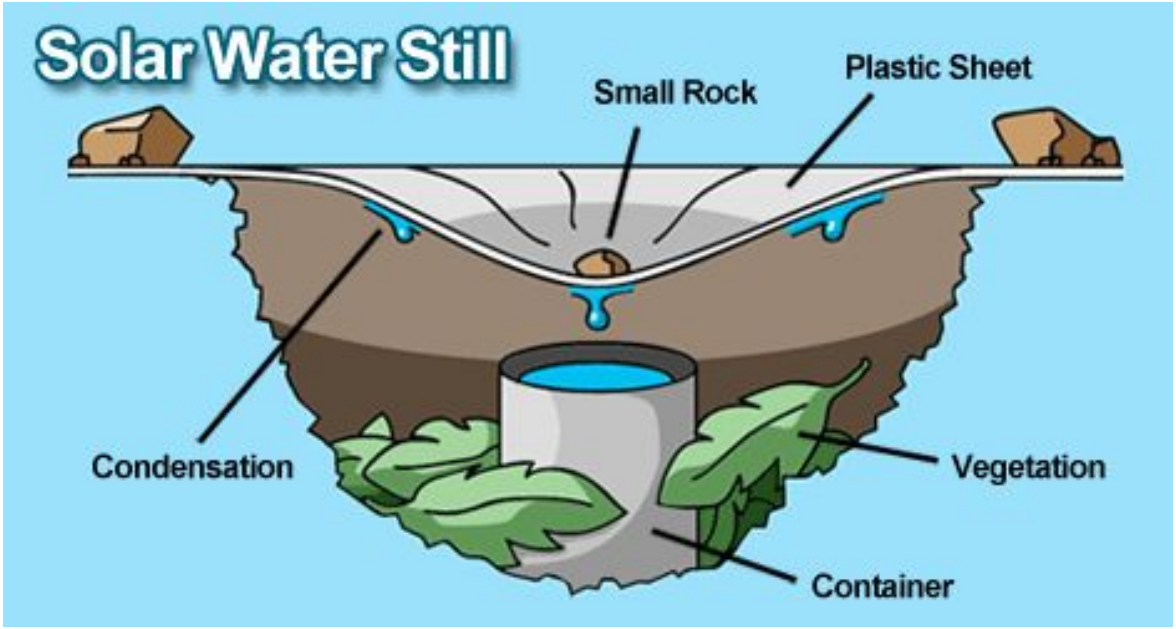
Real World Examples:

- **Desalination** (Purify Salt Water)
- Separation of **Crude Oil**
- **Water** Treatment Plant



Boiling Point Lab:

Page 7 and Yellow Sheet



Boiling Point Lab:

While mixture is heating...

If we need to wait longer...

Boiling Point Lab Clean up Procedures:

- **Finish your analysis questions first!**
- **Wait until everything is cooled enough to touch**
- **Leave hot plate and hot pads at your table group**
- **Wipe up any salt or water on the desks**
- **Dump your mixture and place aluminum tin and plastic supply bin back on the table just as you found it**