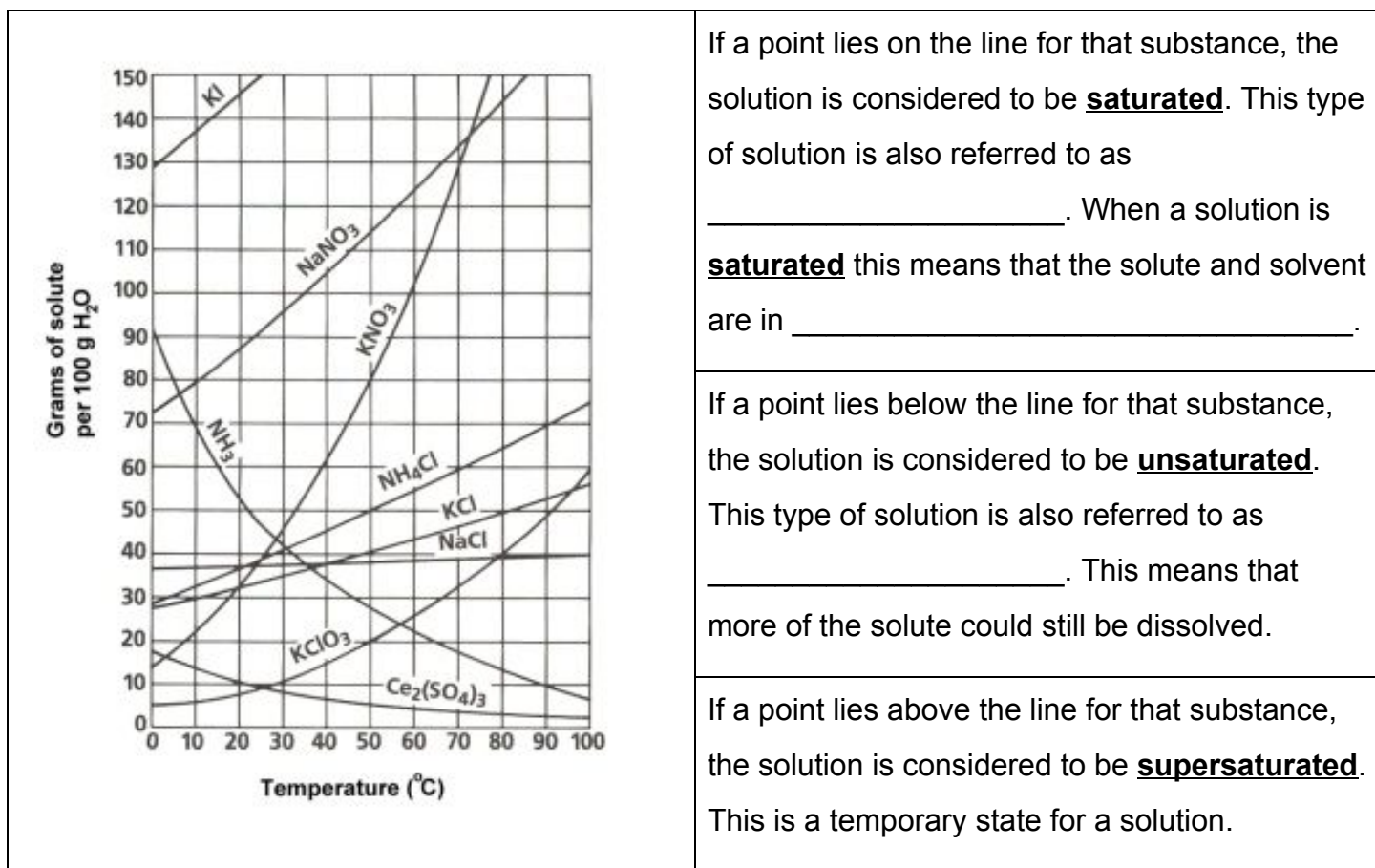


UNIT 4, SECTION 3 - SOLUBILITY CURVES

Solubility Curves:

Solubility curve graphs show the relationship of the amount of _____ that can be dissolved at specific _____. Amount of _____ is measured in grams of _____ per 100 grams of water (the traditional solvent). (1 gram of H_2O = 1 mL of H_2O)

To read a solubility curve graph, match the amount of _____ you are attempting to dissolve at the temperature given (if no temperature is given, assume $25^\circ C$).



Solubility Curve Practice: Use the graph above!

- What is the saturation point for **Potassium chlorate** at $30^\circ C$? _____
- If you had 80 grams of **Potassium nitrate** dissolved per 100 g of H_2O , at what temperatures would it be considered to be **supersaturated**? (Hint: it is a range starting at $0^\circ C$) _____
- **Challenge:** At room temp. ($25^\circ C$), which is **more soluble**: NH_4Cl or $NaNO_3$? _____