

Weather Patterns Study Guide

AKS 15b2- Relate how moisture evaporating from the oceans (and other sources of water such as lakes, rivers, and plants) affects the weather patterns of the Earth's surface. (GPS)

- What can happen when moisture evaporates from the ocean?
 - A lot of moisture?
 - Some moisture?
 - Moisture, and warm temperatures
- What weather patterns are affected by moisture in the air?

AKS 15b3- Compare the four major types of air masses and how they create fronts that affect weather patterns

- Write out the NAME of each type of air mass and describe the temperature and humidity
 - cP
 - cT
 - mP
 - mT

- List the four types of fronts and draw their weather map symbol:

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- What is happening as each type of front is formed? What type of air mass is hitting what type of air mass? Where is the air moving?

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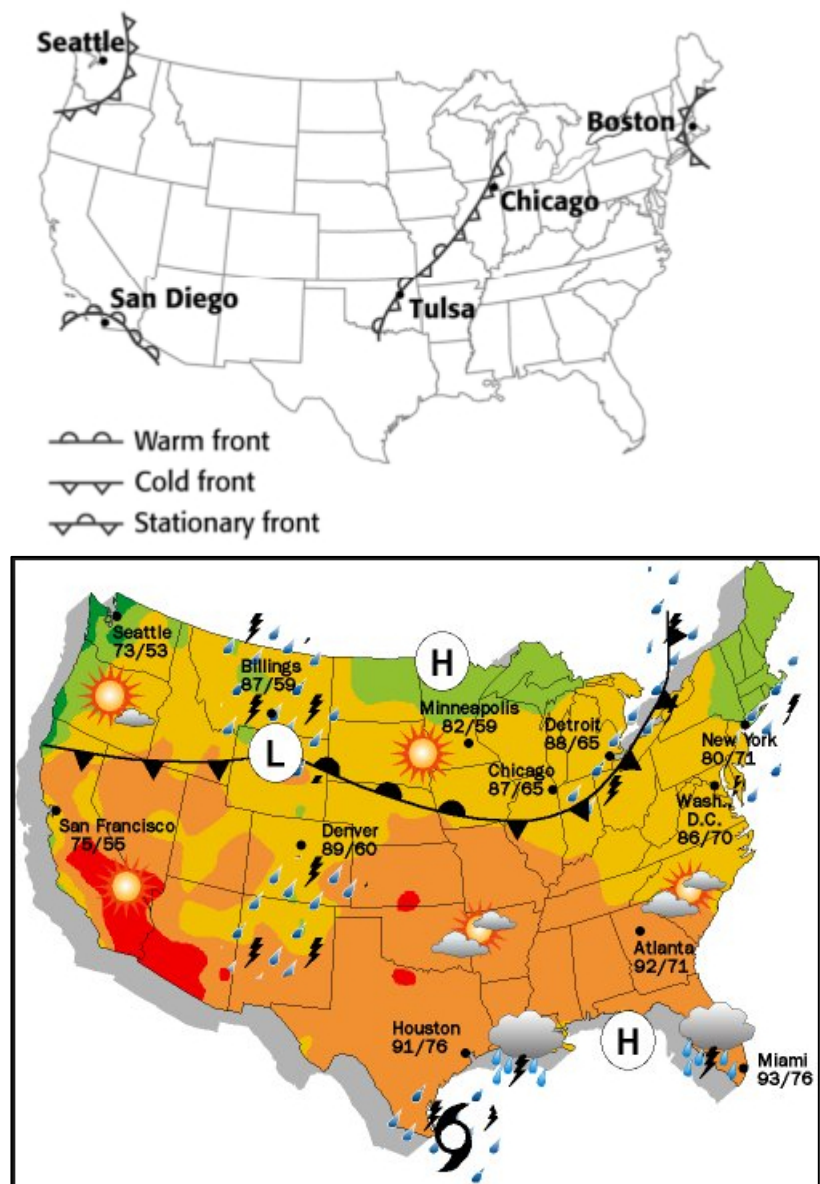
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AKS 15b6- Investigate different types of weather phenomena (lightning, tornadoes, hurricanes, blizzards, and floods)

- Describe the causes, effects, and safety tips for thunderstorms (with lightning), tornadoes, hurricanes, and flash floods

AKS 15b7- Interpret weather maps and understand weather forecasting

- Be able to look at a weather map (recognize areas of high, low, and equal pressure, fronts) and be able to predict weather conditions after a few days



AKS 15c- Relate unequal heating of land and water surfaces to form global wind systems and weather events such as tornadoes and thunderstorms (GPS)

- Describe how global winds affect weather patterns.
- What role can global winds play in the formation of tornadoes?
- What role can global winds play in the formation of thunderstorms?
- How does the unequal heating of land and water related to the formation of tornadoes and thunderstorms?

AKS 15c1- Discuss factors that determine climate

- What is climate?
- What are climate zones? Biomes?
- What factors can influence climate change?
- What is global warming, and how is it caused?