**Winds**

7.E.1.5  Explain the influence of convection, global winds and the jet stream on weather and climatic conditions.

**Essential Questions:**

* What causes wind?
* How is the wind speed and direction influences by various forces and factors?
* How does wind affect our weather?
* Why do sea breezes occur during the day and land breezes at night?
* How does the jet stream affect weather conditions at the surface?
* How do global wind patterns changes as you move to different places on the globe?
* How do global winds affect the weather?

**Vocabulary:**

**local winds -** winds in a small area, changes daily

**global winds** - steady winds that travel the globe

**Jet stream**- a narrow, variable band of very strong, predominantly westerly air currents encircling the globe several miles above the earth.

**Convection**- the movement caused within a fluid (like air) by warmer, less dense material to rise, and colder, denser material to sink, resulting in heat transfer

**Coriolis (force) effect**- The rotation of the Earth causes winds to deflect to the right in the Northern Hemisphere and to the left in the Southern Hemisphere.

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