

Bellringer:

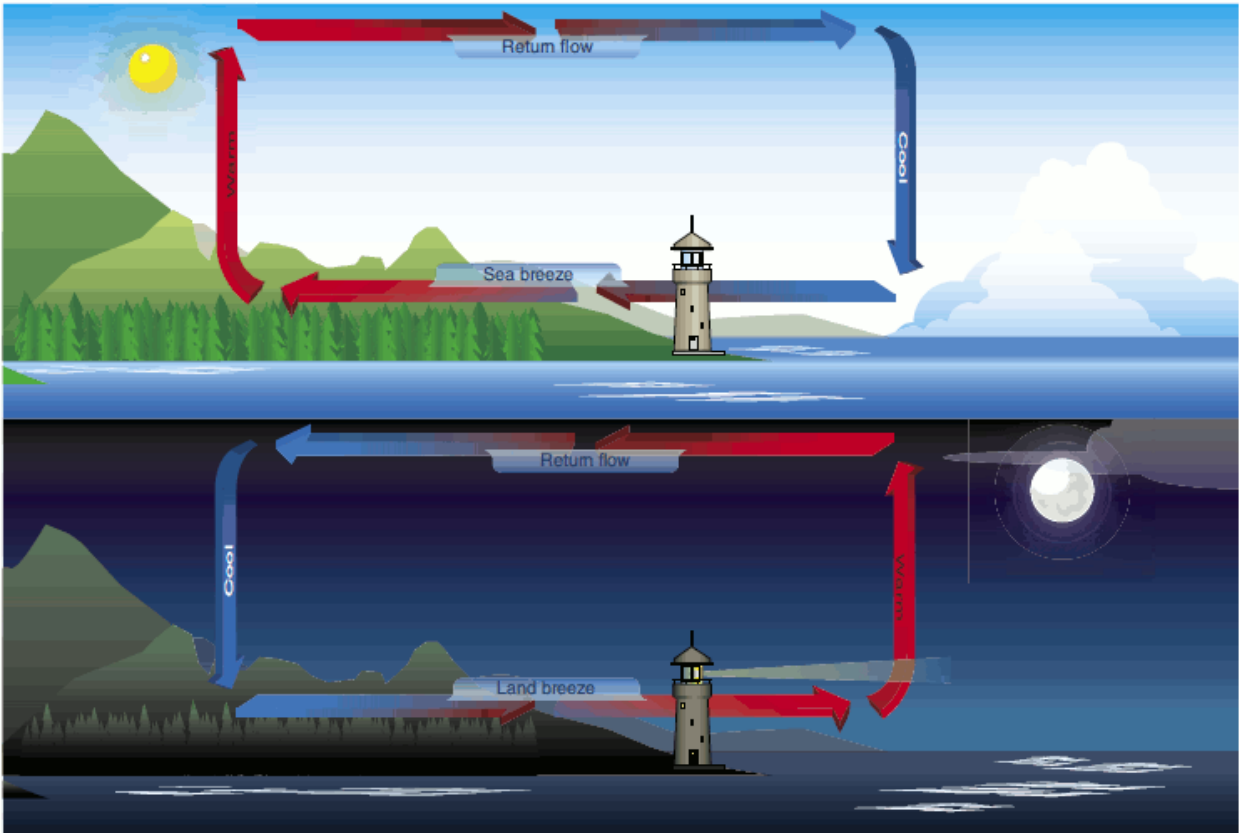
1. Why does heat rise in fluids like water and even gas or air?
Does this help explain why ice floats?
2. What is convection?
3. How does convection affect our regional and global climate?

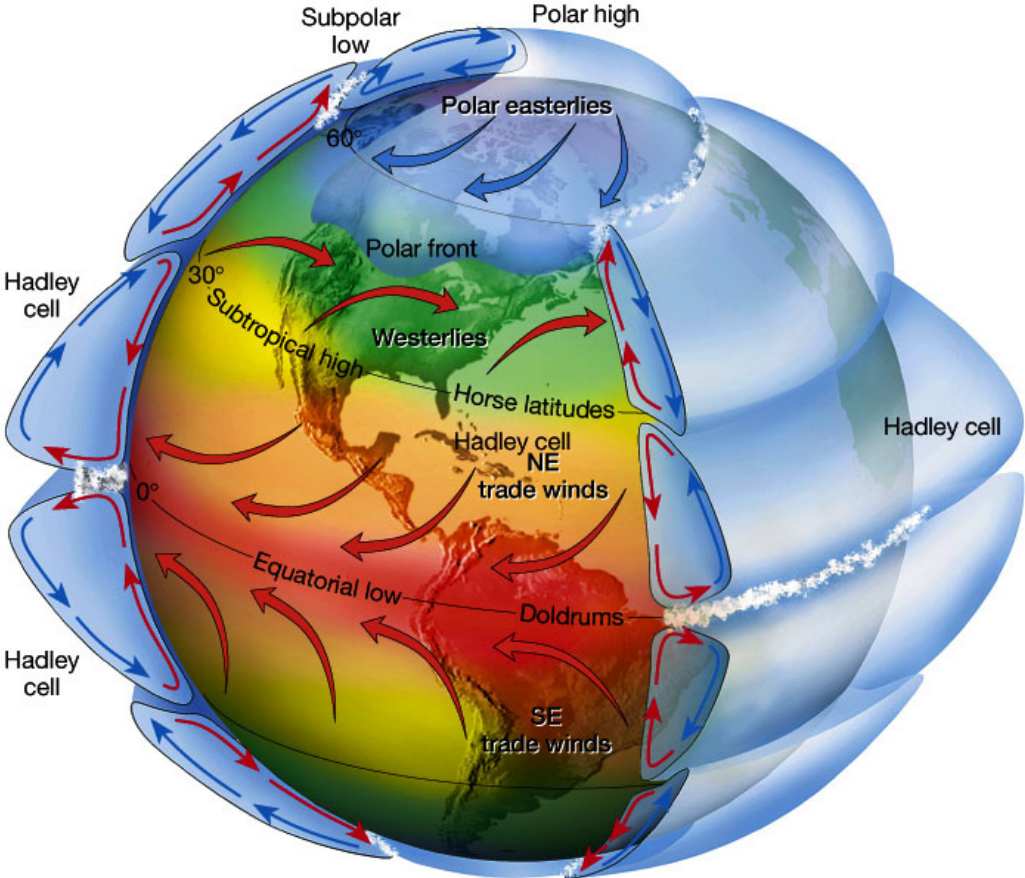
Learning Objectives:

- I can explain that temperature changes can cause density changes in water.
- I can explain that air is a fluid and behaves in ways we expect of other fluids.

Convection

The movement caused within a fluid by the tendency of hotter and therefore less dense material to rise, and colder, denser material to sink under the influence of gravity, which consequently results in transfer of heat.





Activity

1. Group up with 4-6 people. 8 groups total.
2. Grab a tub and fill up with tap water.
3. Get cup of hot water from Mr. Davis.
4. Place food coloring in your cup and mix.
5. now using a dropper get as much hot colored water as you can and drop it in the bottom of the tub.
6. Observe.
7. Now place a few ice cubes near the rising colored water and observe.