

# Atmospheric Pressure

What happens to the air particles as elevation changes?

# Air pressure vs altitude

- [https://www.youtube.com/watch?v=7\\_yf-iRf8Vc](https://www.youtube.com/watch?v=7_yf-iRf8Vc)
- **Answer questions below once you finish watching video clip above:**
  - What happens to the air particles as elevation changes?
  - Sketch a diagram of an individual standing on a mountain and an individual standing at sea level with eggs above their head to represent air particles. Lets say, You are given 8 eggs in total to draw above the individuals. How many eggs would you draw above the individual on the mountain and the one at sea level?

# Air Pressure and Climbing

- <https://www.youtube.com/watch?v=9xjc8mOeWLw>
- **Read Article:** [National Geographic: Geography in the news: climbing the highest Mountains](#)

**Answer questions below once you finish watching video clip above and reading the article:**

- What transports oxygen in your body?
- Atmospheric pressure decreases as you climb a mountain, how does this affect the transport of oxygen in your body?
- 25000 feet is considered to be the death zone, why is this?
- What symptoms might result if a person does not take the time to acclimatize slowly as they trek up a mountain such as Mount Everest.

# **Activity:** Pack your backpack for your hike up Mount Everest

- **You are only allowed to take 16 objects** (*choose wisely – can mean life or death!*)
- **Your backpack can only weigh a total of 50 lbs.** (*Remember the lighter it is the easier it will be to carry up that mountain*)