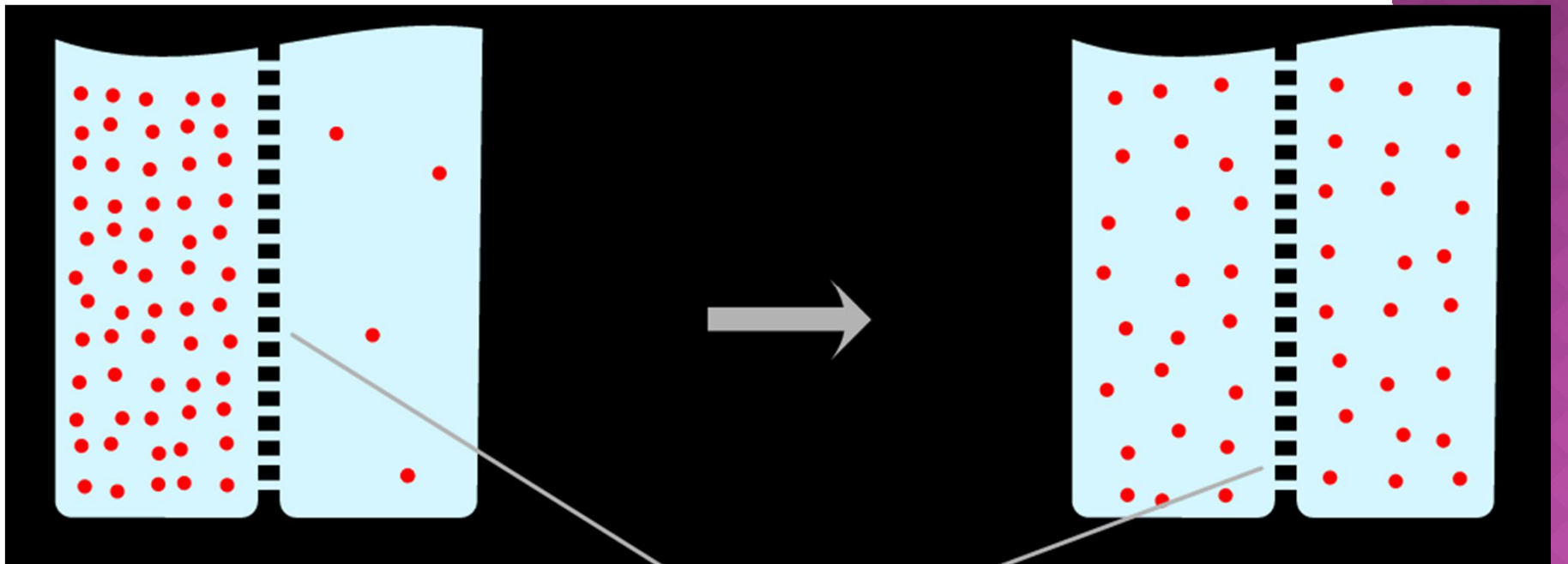


# DIFFUSION

- Real life example:
  - Candle
  - Baking cookies
  - Body spray
- Particles in these aromas (gases) are colliding in the air
- Particles are always in motion
- Causes **diffusion**
  - Movement of particles from lots of particles to fewer particles

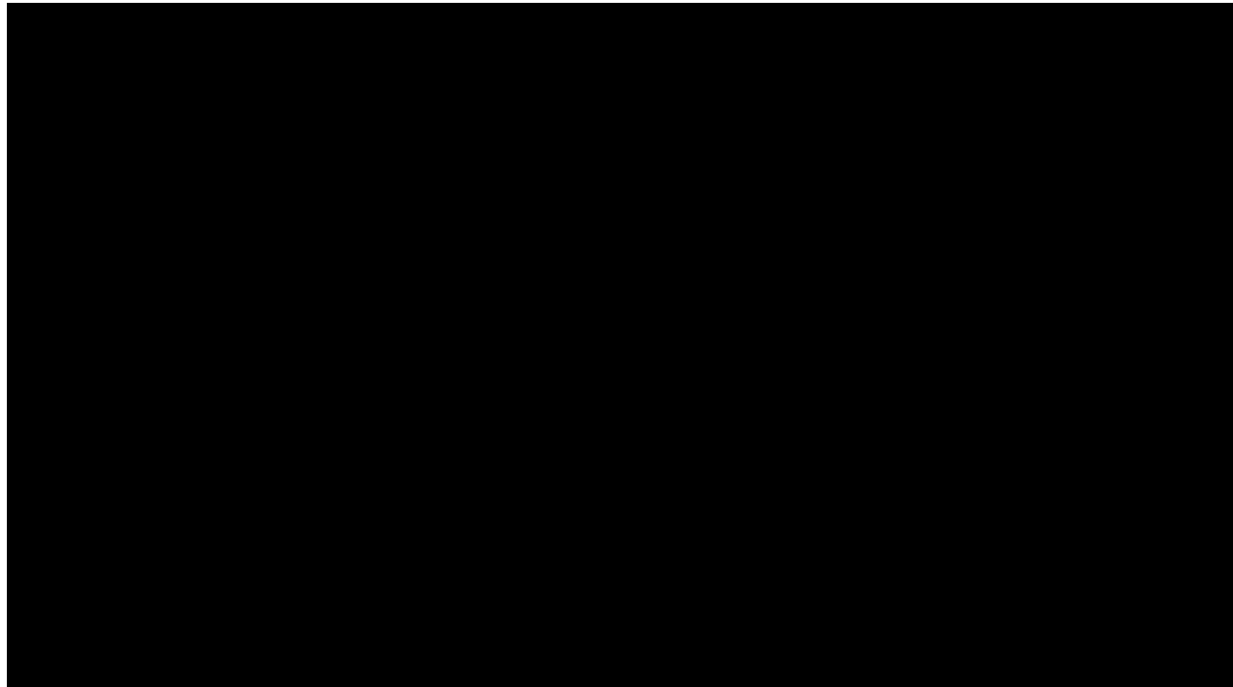
# DIFFUSION

- Amount of particles in an area is called concentration
- So diffusion goes from HIGH concentration to LOW concentration



# DIFFUSION

- Diffusion does NOT require any extra energy
- Particles like to go from HIGH to LOW
  - Think about a hill
  - What's easier? Up a hill or down a hill?



# DIFFUSION

- Once all particles are at an equal number there is no more diffusion
- No more concentration change = **dynamic equilibrium**

