

Science Soars

October 2nd, 2015

Hiller Aviation Museum

- Open 10 AM– 5 PM, 7 Days Per Week
- Special Events Each Month
- Year-Round Education Programs



Special Events

- Holiday Helicopter Events
- Model Train Displays
- Summer Family Wednesday Events
- Special Aircraft Fly-Ins



Education Programs



- Field Trips
- Half Day Take Flight
- Scout Badge/Patch
- Summer Aviation Camp

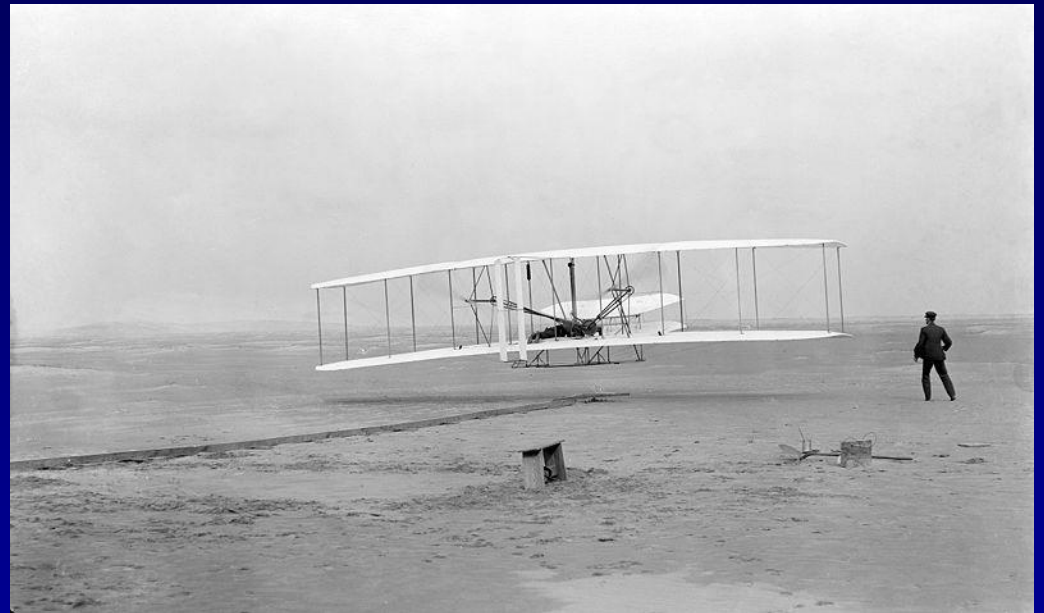
The Science of Flight



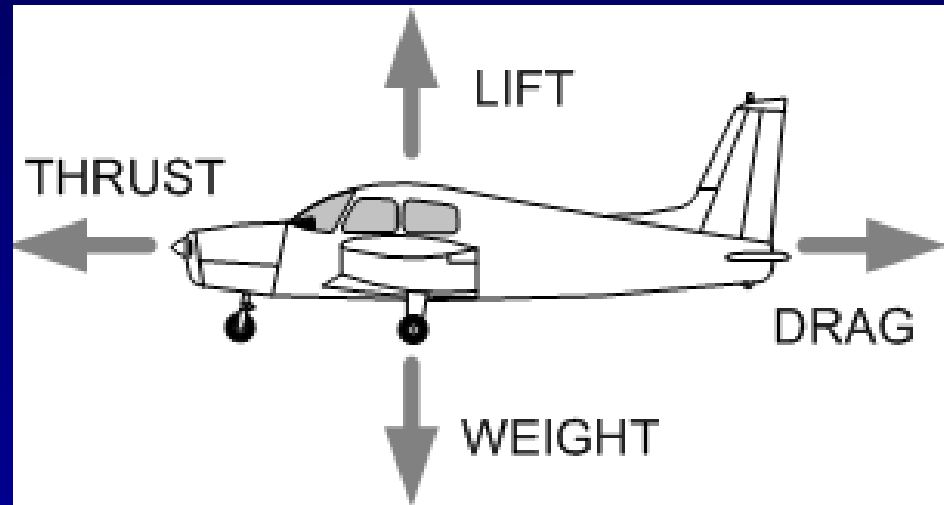
- Motion
- Energy
- Aircraft Control

The Wright Brothers

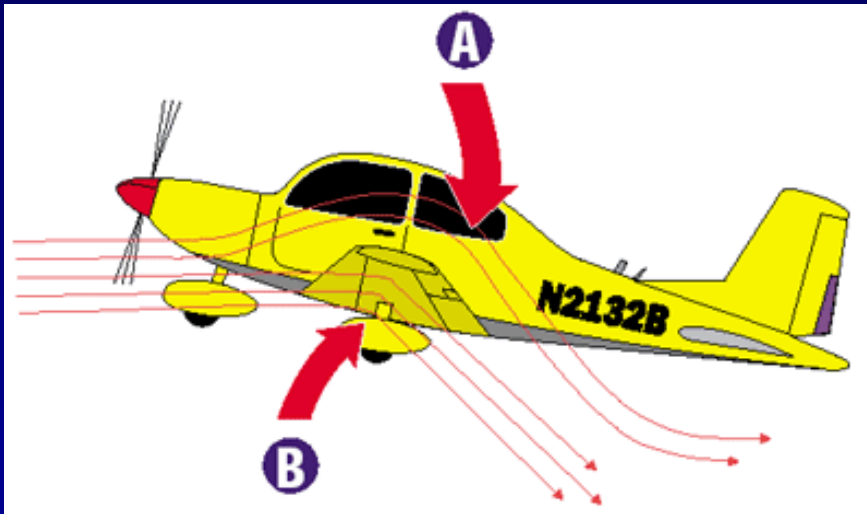
- Studied Flight Scientifically
- Conducted Tests on the Ground and With Gliders
- Mastered the Four Forces of Flight



Four Forces of Flight



Lift



- Moving Wing Pushes Air Down
- Air Pushes Up on Wing
- Result is Lift

Lift at Work



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Weight

- Force of Gravity Pulls Aircraft's Mass Towards Ground
- Aircraft Designed to be Lightweight



Drag



- Slows Down Aircraft In Flight
- Adjust Drag to Control Airspeed



Maximum Drag



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Thrust

- Pushes Airplane Forward
- Provided by Engines



Thrust in Action



Let's Explore Flight

