1. Write a definition for the following key terms and organizations in Aerospace Engineering.

|  |  |
| --- | --- |
| Aeronautical Engineering |  |
| Astronautical Engineering |  |
| Thermodynamics |  |
| Aircraft |  |
| Spacecraft |  |
| Air Traffic Control (ATC) |  |
| Federal Aviation Administration (FAA) |  |
| National Aeronautics and Space Administration (NASA) |  |
| American Institute of Aeronautics and Astronautics (AIAA) |  |

1. For the following parts of an airplane, write a brief definition of each and then label them on a picture/sketch of a plane.

|  |  |
| --- | --- |
| Aileron |  |
| Cockpit |  |
| Elevator |  |
| Flaps |  |
| Fuselage |  |
| Wing |  |
| Rudder |  |
| Vertical stabilizer |  |
| Horizontal stabilizer |  |
| Longitudinal Axis |  |
| Lateral axis |  |
| Vertical axis |  |
| Aileron |  |



1. Label the following forces and motions of an aircraft:

|  |  |
| --- | --- |
| Yaw | Weight |
| Roll | Thrust |
| Pitch | Lift |
| Heading | Drag |



1. Write a brief explanation of the following principles as you think they are relevant to flight:

|  |  |
| --- | --- |
| Newton’s 3rd Law of Motion |  |
| Bernoulli’s Principle |  |