**Air and Aerodynamics Review**

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**Key Vocabulary:**

* **Aerodynamics**
* **Air**
* **Airfoil**
* **Air pressure**
* **Air resistance**
* **Atmosphere**
* **Bernoulli’s Principle**
* **Burning/combustion**
* **Compression**
* **Contour feathers**
* **Down**
* **Drag**
* **Expand**
* **Friction**
* **Glider**
* **Gravity**
* **Hovercraft**
* **Jet engine**
* **Kinetic energy**
* **Lift**
* **Mass**
* **Pectoral muscles**
* **Propeller**
* **Oxidation**
* **Resistance**
* **Rusting**
* **Streamlining**
* **Thrust**
* **Weight**

**Key Questions and Understandings:**

1. **Understand that air takes up space and be able to provide and interpret evidence of this fact (Real world examples)**
2. **Understand that air exerts pressure and be able to provide and interpret evidence of this fact (Real world examples)**
3. **Understand that air is a fluid and is capable of being compressed and be able to provide and interpret evidence of this fact (Real world examples)**
4. **What is Bernoulli’s Principle and how does it explain lift?**
5. **How do living things and devices gain enough lift to overcome gravity?**
6. **Name and explain the adaptations that enable birds and insects to fly.**
7. **What are the means of propulsion for flying animals and for aircraft?**
8. **What is streamlining and how does it reduce drag?**
9. **What are specific design changes on aircraft that make them more streamlined?**
10. **What gases is air composed of and what is specific evidence of this?**