**Scientific Methods – Reverse Engineering “The Wright Brothers”**

1. **Identify the \_\_\_\_\_\_\_\_\_\_: The Wright Brothers –How to do motorized \_\_\_\_\_\_\_\_\_\_**
2. **Researching the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: How to do motorized Flight**
   1. **They \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the Smithsonian Institute**
   2. **Problem how to control the \_\_\_\_\_\_\_\_\_\_\_\_\_**
      1. **Side to side roll**
      2. **Up & Down – \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
      3. **Left to Right- Yaw**
   3. **How to achieve better \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **Designing a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **Wilbert designs a set of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ after the model of a box**
      1. **This design allowed him to control the wings= call wing \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
      2. **Then they built a larger version of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ with these wings**
4. **Building a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **Built a full size \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   2. **Documented flight and design with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **Trouble Shoot and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **Was a \_\_\_\_\_\_\_\_\_\_\_\_\_year process to redesign the airplane**
   2. **Concluded their formula was \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. **Tested in a homemade built wind \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **They used the Scientific Method to design the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ wing for their airplane**
   1. **With a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   2. **Modern aircraft \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. **Powerful light weight \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
7. **Spring \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ began to build a new aircraft**
   1. **Was called a Warpper \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ machine**
8. **December 17, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **Launch day**
   2. **10:33 – Orville flies for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ sec for a distance of 36.5 meters**
9. **Communicating the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   1. **Sent \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to family of successful flight**
   2. **Family sent news to all area \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
   3. **Only \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ newspapers reported the story**
10. **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of Communication**
    1. **No buyers for \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ years**
    2. **July 1909 – U.S. Government asked the Wright brothers for an \_\_\_\_\_\_\_\_\_\_\_\_\_\_**
       1. **During the Audition – Their mission was to stay in the air for \_\_\_\_\_ hour**
       2. **Orville flew the plane for \_\_\_\_\_\_\_\_\_\_\_\_\_\_ minutes, then landed safely**
    3. **The brother inventors were now in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
11. **Evaluating the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
    1. **Can today’s reenactment successfully \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_their replica airplane**
    2. **An attempt was made on the anniversary of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ flight**
    3. **On Dec 17, 2003 attempt could not happened because there was not enough \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
12. **Lesson Learned**
    1. **There are often \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the Road of SUCCESS!!**