



Aviation Merit

Note: This merit may be earned by successfully completing a private pilot ground school course (solo flight not required) OR by completing the following requirements.

Private pilot ground school course completed

Some answers will need to be written on a separate sheet of paper and placed in your workbook.

1. Read a book on aviation.

Title of the book _____

Author's name _____

List below three things you learned about aviation from this book.

a. _____

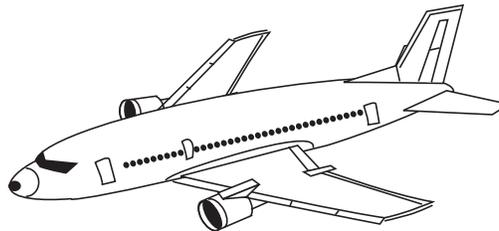
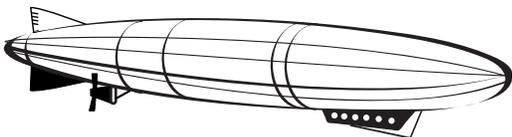
b. _____

c. _____

2. Identify from a video presentation, photographs, or actual in-flight observations at least seven types of aircraft, using their proper names.

Identify the types of aircraft below from the following list:

Hot Air Balloon Fighter Jet Airliner Dirigible Balloon Helicopter



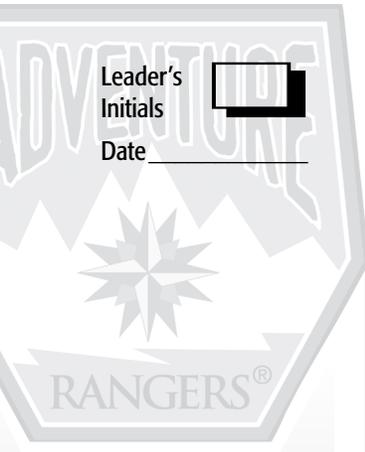
a. _____ b. _____

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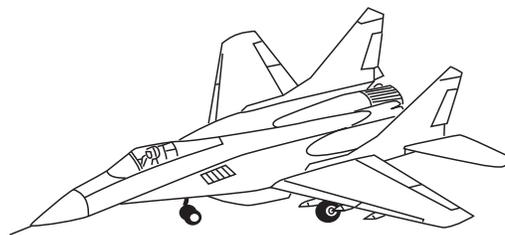
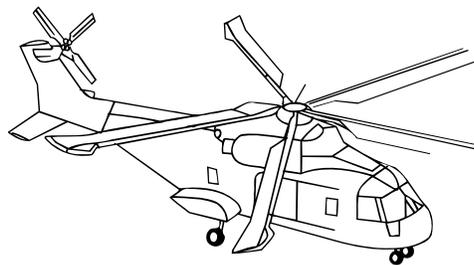
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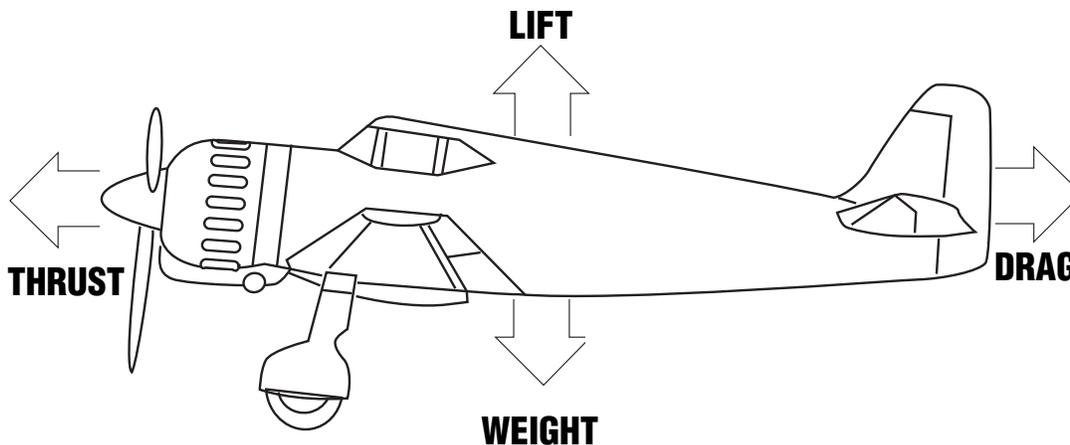


c. _____ d. _____

3. Make a sketch of an airfoil and explain the principle that produces lift.

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4. Using a model airplane, explain the effect of drag, lift, thrust, weight, and gravity on an airplane in flight.



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5. Make a list of ten major working parts of an airplane and explain the purpose of each. Make a profile drawing of an airplane and show the position of each part.
6. Explain the difference between these types of aircraft engine: piston, jet, and rocket.
7. Explain the purpose and importance of the following instruments on an instrument panel: compass, oil pressure gauge, attitude indicator, altimeter, bank and turn indicator, airspeed indicator, tachometer, and temperature gauge.
8. Explain in detail the proper procedure for each of the following: takeoff, banking and turning, and landing.
9. Do TWO of the following:
 - a. Visit an airport and make a list of five types of equipment and facilities used.
 - b. Take a flight in any aircraft. Provide information about your flight, such as the type of aircraft, the origin and destination of the flight, and your observations during the flight.
 - c. Build and fly a fuel-powered model airplane.
10. List at least ten different job opportunities in aviation. Choose one career and describe the job qualifications for the job and the approximate salary range.

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