

GREENWOOD MILITARY AVIATION MUSEUM





Flight Education Reference Manual

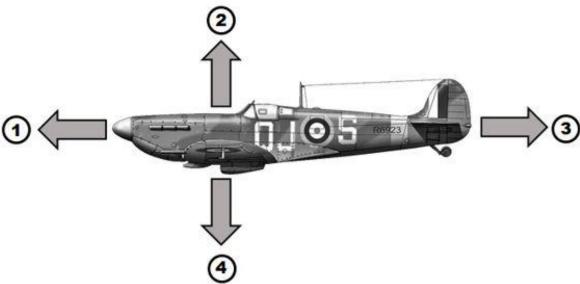
QUIZ THE FORCES OF FLIGHT

GMAM FItEd Program

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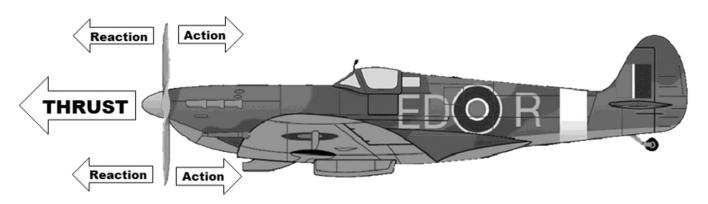
Rev 1.0 30 March 2021

Greenwood Military Aviation Museum (Forces of Flight)



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1. Using the illustration above, print the name for or	ne the four (4)	forces of flight next to	each number.	
1.	2.		_	
3	4.		_	
For the following questions, use the name(s) of the	four (4) "Forc	es of Flight" to fill in th	ie blanks.	
2. For an airplane to take-off and fly, it needs to inca air flows over the curved top surface.	rease	so that the wing can pr	roduce	as
3. When an airplane climbs (goes higher)	becomes the s	stronger of the four (4) i	forces of flight.	
4. When an airplane is decending (coming down) to stronger than and	land, both _	and	become	
5. Lowering the airplane's wheels will increase	·			
6. When the pilot lowers the flaps, it will create ever	n more	while providing a li	ttle more	<u>—</u> ·
7. If an airplane loses engine power (engine quits) _ air flowing over the wings to produce	ca as the airp	an become the source fo	orlides) back to 6	to keep earth.

Greenwood Military Aviation Museum(Basic Aerodynamics)

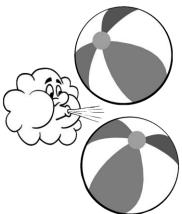


For the following statements, choose the correct answer from the box below and enter it in the space provided.

- 1. The "Third Law of Motion" is that "for every action, there is an equal and opposite reaction". This was discovered by
- 2. When air blows between two (2) beach-balls, they will move toward each other instead of flying away from each other. This principle was discovered by some guy named

Choose the correct answers to fit in the blanks

above: Donald Trump, Justin Bieber, Sir Isaac Newton, Elvis Presley, Isadore Weinstein, Will Smith, John Wayne, Mr. Bernoulli



True or False: For the following statements, place a "T" (if true) or an "F" (if false) in the blank space.

- (1) All airplanes can glide but some glide much better than others.
- (2) The distance that an airplane can glide is known as a "Glide Ratio" _____
- (3) At top speed, it would take the CF-18 jet fighter 15 minutes to fly from Greenwood to Halifax
- (4) A speed of "Mach 1.8" is nearly three (3) times faster than the speed of sound.
- (5) The first powered airplane was built and flown by the Smith brothers in the year 1909.
- (6) The pilot of the first powered airplane did not have a seat to sit in.
- (7) The "Argus" aircraft set a record by staying in the air for almost a day and a half.
- (8) Airplane designers are always looking for ways to increase "thrust" and reduce "drag".