

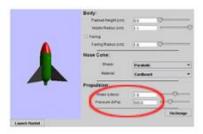
How do you convert from PSI to Pascals? Learn how.

Click here to access the Simulator.

Now:

## What happens if I add Water? Is more water better?

Back to the simulator!



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Try different amounts of water and air pressure and log the results.

Click here to access the simulator.

Conclusions:

Which gave the fastest speed, water or air?

a) water

b) air



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> Any comments, concerns, or questions should be addressed to: Developer: David Mazza Responsible NASA Official: Jo Ann Charleston



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## To Convert from PSI to Pascals:

- 1. Set up a conversion table as shown below.
- 2. The top row is for the numerator and the bottom row for the denominator.
- 3. Units desired are placed in the last column.
- 4. If you want to replace a unit, put it in an opposing row (for example: to replace 'sq inches' in the lower row, in the next column place 'sq inches' in the upper row).
- 5. Multiply numbers in the same row.
  6. Divide (if necessary) the upper row by the lower row.

14.7 Pounds	4.4482 Newtons	1550 Sq inches	= 101,352 Newtons
1.0 Sq inch	1.0 Pound	1.0 Sq Meter	= Sq meter
			= 101,352 Pascals

You try a conversion. Pick a pressure . . .

Pounds	4.4482 Newtons	1550 Sq inches	= Newtons
Sq inch	Pound	Sq Meter	= Sq meter
			= Pascals