Module 7

Propulsion System

| Propeller Size Nomenclature | |
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| What is the length and pitch of a 5X4 propeller? | |
| | |
| | |
| 2. How Pitch and Length of prop affect Thrust | |
| Complete the following: | |
| | |
| a) If you increase the prop length or pitch: | |
| The surface area and drag(increase/decreas | e). |
| (more/less) air can be moved. | |
| (more/less) thrust is generated. | |
| The Quad moves(faster/slower) | |
| You need(more/less) power from the motor. | |
| The motor draws(more/less) current. | |
| | |
| b) If you decrease the prop length or pitch: | |
| The props spin(faster/slower). | |
| The RPM goes(up/down) | |
| The motor draws(more/less) current. | |
| The quad moves(faster/slower) | |
| You need(more/less) power from the motor. | |



3. Answer True or False

| a) | Propellers convert engine power to lift |
|----|--|
| b) | The length of a prop is always measured in inches |
| c) | Low RPM generate small torque |
| d) | Small props are not very efficient |
| e) | Large props are not very stable |
| f) | Large props lift more weight |
| g) | The leading edge of a prop is the protruding side |
| h) | Props should never spin in the direction of the leading edge |

