

Read this catalog carefully...it's designed to give you all of the information you'll need to get started flying model rockets the right way...with Quest.

If you've never launched a model rocket before, choose one of Quest's Readyto-fly (RTF) or Skill Level One starter sets (Page 4). The starter sets include a rocket, recovery system, reusable launch pad, electric launch controller, three rocket motors with Q2G2 Igniters, and recovery wadding. You will need to purchase batteries for the launch system and glue for some rocket kits.





Skill Level 🚺 One/RTF

For anyone new to model rocketry and with little or no modeling experience. Rockets require either no assembly or simple construction.

Skill Level 🛛 Two

For experienced modelers, assembly affects rocket performance.

Skill Level (Three

An exciting test for advanced rocket flyers. Master Level Two before moving up.

Skill Level (Four

Recommended only for EXPERT rocketeers. A true test of modeling skills.

Stages of Flight

0	
1 Ignition	By safe, electric igniter
2 Lift Off	From Launch Pad, powered flight starts
3 Coasting	Powered flight ends delay charge. Allows for altitude gain.
4 Apogee	Peak of flight. Rocket arcs over.
5 Ejection	Charge pressurizes inside of rocket and pushes recovery system out.
6 Recovery	Gentle descent. Readu to flu again.

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Anatomy of a Rocket

Stages of Motor Burn

IGNITION: Electric Launch Controller heats igniter placed in motor nozzle. Motor starts thrusting.

LIFT-OFF: Rocket Motor develops enough thrust for powered flight.

COASTING: Propellant has been consumed. Tracking Smoke is ignited while rocket coasts to peak altitude.



APOGEE: Rocket reaches peak altitude, loses momentum, arcs over and points down as Tracking Smoke is consumed.

EJECTION: The Final Charge activates, creating expanding gases to deploy recovery system.

Rocket motors, igniters and recovery wadding can be used only once, but each rocket can be flown over and over again. You'll need a new rocket motor, igniter and recovery wadding for each additional flight. Each Quest rocket includes a list of recommended motors to use. See page 23 for more information. Model Rockets are all reusable. Most require assembly and come in different shapes.

Nose Cone

Guides airflow around the Rocket (streamlines).

Body Tube

Main structure (airframe), usually a strong paper tube.

Recovery System

Device to allow for safe descent of rocket intact.

Recovery Wadding Protects recovery system from hot ejection charge gases.

Launch Lug

Guides Rocket straight off launcher.

Motor Mount Holds motor in place

Rocket Motor

Safe Non-reusable device. A new motor is needed for each rocket flight.

Fins Keep roc<mark>ket</mark> traveling straight.

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All the rocket kits featured in the catalog have plastic nose cones, Kevlar shock cord systems, color-coded parts, and utilize laser-cut balsawood fins unless specified otherwise.



QUESTIONS? C	Contact us: 800-858-7302 RUEST
Ryfng Model Rockets	
Model Rockets	Skill Level One
	Recovery Streamer
	Length 7.5in 19cm
	🔀 🖌 🙀 🕹 🕺 Diameter 🛛 1.58in 40mm
No.	Motors A6-4 ONLY
7	
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No.	
	soars up to 1800 feet
College and the second second	Recovery Streamer
NOVIA /	
No. 1006	Diameter .79in 20mm Motors A6-4
	СБ-З
Paper Cradle included to hold	
rocket while	
fins dry!	
	🕴 🛱 🛛 Skill Level (One
	Recovery Streamer
STARHAW	Length (13in 33cm
SIARFIAW	Diameter (.79in 20mm
No. 1	1005 Diameter .79in 20mm 1005 Motors A6-4
One-Piece F	Fin Unit
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QUESTIONS? Contact us: 800-858-7302)



Utilizes TTW (Through The Wall) technology for easy fit and perfect alignment.

No. 1020

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		And the second se
	Skill Level	One
	Recovery	Parachute
Altii	Length	14in 35.6cm
Max. Altitude	Diameter	1.18in 30mm
ĽΣ	Motors	АБ-4
R [^]		86-4
		(C6-3
		C6-5
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Skill Level

Recovery

Length

Motors

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METERS 90

AETERS 90

Diameter

One

A6-4 86-4 C6-3 C6-5

Parachute

13in 33cm

.98in 25mm



45	8	Skill Level	One	
	n izoo r Max. Altitude	Recovery	Parac	buto
	H			
BB	Alti	Length	17.3in	43.8cm
	X.	Diameter	.98in	25mm
	ΞŽ	Motors	A6-4	
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4	Skill Level	One
Altitude	Recovery	Streamer
and Altit	Length	16in 38cm
	Diameter	1.58in 40mm
Max.	Motors	АБ-4
		(B 5 -4
		(C6-3
	H	(C6-5
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No. 1022

QUESTIN

PLANE

PROBE

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<u> </u>	U Skill Level	One
1	Recovery	Parachute
	Recovery	23in 58,4cm
	• Diamotor (1.58in 40mm
	Motors	АБ-4
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		(C6-3) (C6-5)
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1200	Skill Level	One
Max. Altitude	Recovery	Parachute
abo Zoo Altii	Length	21.5in 54.6cm
× –	Diameter	1.38in 35mm
	Motors	A6-4
	and 1	86-4
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		C6-5
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PAYLOADER

Utilizes TTW (Through The Wall) technology for easy fit and perfect alignment.



FULL BETTY

42	Bu	Skill Level	Two
X	tude	Recovery	Tumble/Streamer
	Altit	Length	12.25in 31.2cm
		Diameter	1.57in 40mm
	Max	Motors	АБ-4
Z			86-4
		-H/	C6-3
			C6-5
	e.	Booster	86-0
			C6-0
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Max. Altitude	Recovery	Parachute	i
and Altit	Length	17.4in 44cm	
×. +	Diameter	.79in 20mm	1
	Motors	АБ-4	
		86-4	
	- CHILLAN	(C6-3	
		(C6-5	
VIETERS 90 FEET 300	al	8	

STRIKER AGM

SUPER BIR

SuperBird

US ARMY

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	Skill Level	Two
Lde S		
A THE	Recovery	Parachute
360 200 Alti	Length	27.7in 70.5cm
d 360 1 1200 Max. Altitu	Diameter	1.38in 35mm
≍	Motors	АБ-4
		86-4
	_AAAA	C6-3
		C6-5
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Send an egg 400 feet into the air and return it safely to earth!

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	Skill Level	Two
il izoo ir Max. Altitude	Recovery	Dual Parachute
Altii	Length	19.87in 50cm
ŭ.X	Diameter	1.38in 35mm
Ξ	Motors	АБ-4
		86-4
		C6-3
	HEF _	(C6-5
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UNITED STATES

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4	Recovery	Parachute
B	Recovery Length Diameter Motors	26.5in 67.3cm
	× Diameter	1.38in 35mm
	∑ Motors	АБ-4
8		86-4
	APPIN	(C6-3
		<u>C6-5</u>
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Skill Level



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Skill Level Two tude Recovery Parachute Altit Length 30.1in 76.5cm Diameter 1.38in 35mm Max, Motors 86-4 C6-3 C6-5

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450	Skill Level	Three
360 4 Izoo 15 Altitude	Recovery	Parachute
abo Zoo Altii	Length	22.4in 56.9cm
Max.	Diameter	1.38in 35mm
, S	Motors	АБ-4
		B6-4
	Affillit	(C6-3
		C6-5
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MAGNUM SPORT LOADER No. 3012

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 Skill Level
 Three

 Recovery
 Parachute

 Recovery
 Parachute

 Length
 24in 61cm

 Diameter
 1.58in 40mm

 Motors
 A6-4

 B6-4 × 2
 C6-3 × 2

 C6-5 × 2
 C6-5 × 2

soars up to an incredible 2100 feet

450	μŪ	Skill Level	Three
X	E	Recovery	Parachute
	il izoo ii Max. Altitude	Length	20.3in 51.4cm
	۲. X	Diameter	.98in 25mm
	ΞΞ	Booster	86-0
270	8		(C6-0
4	-TH	Motors	A6-4
		H-H-H	86-4
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	-		C6-5
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TWO STAGE WITH PAYLOAD **7**FNI 1

6	2 a	Skill Level	Three
	izoo isc Altitude	Recovery	Parachute
	B H	Length	22.8in 51.4cm
1		Diameter	.98in 25mm
	Max	Booster	86-0
270			C6-0
	+ 🤅	Motors	АБ-4
			86-4
	8		(C6-3
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VIETERS 90	-	No.	
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FLAT CAT BOOST GLIDER No. 3006

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<u>n</u> <u>n</u>	Skill Level	Three
Ë	Recovery	Streamer/Glider
Alti	Length	20in 50.8cm
li izoo r Max. Altitude	Wingspan	13.5in 34.3cm
Ξ'n	Motors	(АБ-4
		86-4
	-YV	(C6-3
	H	(C6-5
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TOMAHAWA

No. 3007





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1051	Skill Level	Three
	Recovery	Parachute
Max. Altitude	Length	23in 58.4cm
X	Diameter	1.38in 35mm
5	Motors	A6-4
		86-4
\mathbb{N}	ATT	C6-3
		C6-5
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150 H50	Skill Level	Two
tude 5	Recovery	Parachute
360 200 Altitl	Length	17.3in 43.8cm
	Diameter	.98in 25mm
Max Max	Motors	АБ-4
		B5-4
	-AHH	(C6-3
		(C6-5
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METERS - FET		0
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Featured on our cover, build your own fleet of Aerospace One ships and escorts!

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VIII

ABOR

RING





> The real MLAS flight test vehicle weighs over 45,000 lbs and is 33 feet tall.



The moon rockets of the 21st century have the MLAS (Max Launch Abort System) integrated into the Orion spacecraft. The MLAS will quickly and safely propel the astronauts away from danger and set them down in a manner reminiscent of the Apollo capsules during the glory days of the Space Race,

FUTURE LAUNCH EHICLE No. 3013

	Skill Level	Three
Max. Altitude	Recovery	Parachute
	Length	21.6in 54.9cm
×.	Diameter	1.58in 40mm
Ľ	Motors	АБ-4
		86-4
	AHH	C6-3
		C6-5
		and the second



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4 ū t	Skill Level	Three
	Recovery	Parachute
360 200 Altitucia	Length	20.5in 52.1cm
	Diamotor	1.58in 40mm
	Motors	A6-4
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45	2 1	Skill Level	Three
7) izoo i: Max. Altitude	Recovery	Parachute
	Alti	Length	23,5in 58cm
	×	Diameter	1.38in 35mm
	ΞĽ	Motors	АБ-4
270			B6-4 C6-3
1			C6-5
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FORCES



o Designed to be "goof-proof."

- The molded fins slide right into the base for perfect alignment.
- No painting or finishing is required before these rockets are ready to launch!

• Plastic Model Glue required for assembly.

TRITON-X

۵ 2 3	Skill Level	One (Quick Kit)
trde "	Recovery .	Parachute
200 Altit	Length	33in 83.8cm
	Diameter	1.38in 35mm
Max.	Motors	(A6-4
		B6-4
		C6-3
		C6-5
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		APPENDING STREET
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PENETRATOR

45	1500	Skill Level	One (Quick Kit)
	13	Recovery	Dual Parachute
	i izoo r Max. Altitude	Length	38,7in 98,4cm
1	х. В	Diameter	1.38in 35mm
	Ξ	Motors	(АБ-4
270			(86-4
	+ q	//////	C6-3
			C6-5
	60	\\/\#+++#	
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4 1	Skill Level	One (Quick Kit)
360 1200 1+i+iA	Recovery	Parachute
	Length	15in 38.1cm
2	Diameter	1.18in 30mm
	Motors	A6-4
		86-4
	AAAAA	(C6-3
-		C6-5
-2-1		
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	200	1.
AETERS 90 EET 300		\ll
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SEE	
	No. 1611

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450	n 12	Skill Level	One (Quick Kit)
	13	Recovery	Parachute
R	u izoo i: Max. Altitude	Length	26in 66cm
	×	Diameter	1.18in 30mm
	Ξ	Motors	АБ-4
270			86-4
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-	0		C6-5
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MINDTAUR

No. 5015

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Skill Level	(Three
Recovery	18" Fabri
Length	32.5in 8
Diameter	1,92in 5
Motors	012-3
	012-5
	E9-4
	(E9-6
	Aerotec
Y	E20-4W
	E20-7W
	F20-7W
U	
Skill Level	Three
Skill Level Recovery	(Three (18" Fabri
and the state of the state	() (
Recovery	18" Fabri
Recovery Length	18" Fabri 28.75in
Recovery Length Diameter	18" Fabrid 28.75in 1.92in 5 012-3
Recovery Length Diameter	18" Fabri 28.75in 1.92in 5
Recovery Length Diameter	18" Fabri 28.75in 1.92in 5 012-3 Aerotec
Recovery Length Diameter	18" Fabri 28.75in 1.92in 5 012-3 Aerotect E20-4W

_(18" Fabric Ch
	28.75in 73c
(1.92in 50m
(012-3
4	Aerotech:
	E20-4W
	F32-6W

bric Chute n 82.6cm 50mm

ech:

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1 the state

Skill Level Recovery Length Diameter Motors

Three 18" Fabric Chute 27.5in 69.9cm 1.92in 50mm 012-3 012-5 E9-4 E9-6 Aerotech: E20-4W E20-7W F32-6W

F20-7W

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Value Packs perfect for: classrooms school clubs youth groups scout programs



NOVIA No. 5582 - 25 Pack No. 5482 - 12 Pack



Paper Cradle included to hold rocket while fins dry!

METERS 90

5 a	Skill Level	One	
	Recovery	Strea	mer
Altii	Length	11.5in	29.2cm
il izoo ir Vlax. Altitude	Diameter	.79in	20mm
Ľ	Motors	A6-4	
		86-4	
\sim	-11	(C6-3	
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STARHAWK

No. 5583 - 25 Pack No. 5483 - 12 Pack



One-Piece Fin Unit







Utilizes TTW (Through The Wall) technology for easy fit and perfect alignment.

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F Skill Level	One
Recovery Length Diameter Motors	Parachute
E BY Length	13in 33cm
Z Diameter	.94in 25mm
_ ≥ Motors	АБ-4
	86-4
	(C6-3
	C6-5
	~
METER	×





One-Piece Fin Unit











Educational kits for classroom programs



Set of 25 Rockets

- 450 - 1500	Skill Level	One				
and Altitude	Recovery ((Parachute				
Alti	Length	16.25in 41.3cm				
	Diameter	.98in 25mm				
Max.	Motors	АБ-4				
		86-4				
	ATTIN	66-3				
M		C6-5				
BB	In					
Meters 90 FEET 300		8				



Great way to practice for the Team America Rocketry Challenge, the "worlds greatest rocketry contest." **METERS 90**



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Motor	A6-4	B6-4	B6-0	C6-0	C6-3	C6-5
Product No.	5740	5741	5745	5742	5743	5744
Stage Type	Single	Single	Booster	Booster	Single	Single
Total Impulse Newton/LB-sec	2.50/.56	5.00/1.12	5.00/1.12	10.00/2.25	10.00/2.25	10.00/2.25
Time Delay	4 sec.	4 sec.	none	none	3 sec.	5 sec.
Max Lift weight (oz/g)	2.5/74	4.0/113	4.0/113	4.0/113	4.0/113	4.0/113
Propellant weight (oz/g)	.12/3.5	.23/6.5	.23/6.5	.44/12.5	.44/12.5	4/12.5

What does the Rocket number mean?

Letter is total impulse or total power produced by the motor. Each succeeding "letter" has double the previous: for example, a "B" type motor is double the power of an "A" type motor. Indicates how fast the motor enables your rocket to travel. The higher the number, the greater the speed. The number itself stands for the average thrust in Newton-seconds, or the average force exerted.

The delay code in seconds. This is the time duration from the end of thrust to the activation of the ejection charge.

Technical Notes:

All figures shown are optimum performance.

Actual Thrust Time curves are included with each motor.

A Newton(N) is the measurement of force required to move one kilogram of mass one meter per second. (4,45 N=1,0 lbs of thrust)

Quest rocket motors have met the standards set by:

- The National Association of Rocketry
- The National Fire Protection Association
- California State Fire Marshal

Safety:

Model rocketry is recommended for ages 10 to adult. Adult supervision is suggested for those under 12 years of age when flying model rockets. You must be 14 years of age to purchase "A" through "C" type rocket motors in CA and NJ.





Each package contains 6 quality Q2G2 Igniters.

Each package contains 100 biodegradable fire resistant tissue paper.



RECOVERY

WADDI

GNITERS

No. 7024

Accessories

Each package contains one die cut 14" Parachute, 6 Gripper Tabs and three pre-cut Shroud Lines.

LAUNCH ROD

1/8" diameter, 32" long plated 2-piece set fits into Quest Launch Pad.



4" diameter metal Blast Deflector Plate protects the Launch Pad. Plated to prevent rust.

External Battery Connector





Connects to Launch Controller (Prod. No. 7510) and external 6V Lantern Battery. Great for big group launches.

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The complete Launch System package contains a Launch Controller and Launch Pad.



The Launch Controller features a blinking arming safety light, beeping alarm and deluxe safety key in a "sure grip" design. Requires a 9V alkaline battery (not included).



The Quest Launch Pad features a 32in (81cm) two-piece launch rod, blast deflector plate, tilt adjustment, rod safety cap and wind streamer.

SKYSCOPE ALTITUDE MEASURER No. 7812

'How high did my rocket go?'

Technically an inclinometer, our Skyscope is the easiest and least expensive method for determining the height of a model rocket's flight.

Build Your Rocket Racerz



Set up Your Rocket Rails Track



Load a Micro Motor



Race it Down the Rocket Rails Track!



Great Youth Group Activity!

- Safe and FUN!
- Electric Ignition
- Micro solid propellant rocket engine has a 3/4 second burn time.
- Indoors or Out

59

- Dual line race track safely guides Rocket Racerz from start to stop. Use 2 sets for exciting side-by-side Drag Races!
- Each Racer is "customizable" Hundreds of possibilities!
- Flip over the preprinted body for a plain white surface that can be painted and decorated.
- Use scissors to customize body shapes



тм

Yellow Jacket bodies and three Indy-G bodies



Recommended for ages 10 and up with direct adult supervision.

SAFE! A special light-weight chassis stays attached to the race track. Each end of the track is held tightly by 5 gallon water bottles.*

FUN!

Just insert one new Micro rocket engine and an electric igniter for each race! Handheld electric race controller allows you to stand safely to the side during race.

5 gallon water bottles not included.



Rocket Racerz Micro Engines Prod. No 1260 Includes Six Rocket Engines and Six Igniters

> Racket Racerz Igniters Prod. No 1261 Includes Six Igniters

This sport scale model is of the MLAS prototype which was demonstrated in a perfect test flight on July 8. 2009, at 6:26 a.m. at NASA's Wallops Flight Facility. Wallops Island, Virginia. This model is a great way to celebrate man's return to the Moon and beyond.

MAX

SKILL

LEVEL 3

LAUNCH

БТЕМ

FLYING MODEL ROCKET KIT

NAS

After streaking aloft on a pillar of smoke and fire, your personal lunar bound model gently floats to Earth under a total of three parachutes, the capsule under two, the booster under it's own.

Build it, fly it, and be proud. We are going back to the Moon!



Quest Aerospace, Inc. PO Box 2409 Pagosa Springs, CO 81147 800-858-7302 www.questaerospace.com



