Quest Seeker Launch Checklist

Updated January 18, 2012

Supplies N	eeded			
	Completed Quest Seeker rocket		Recovery Material: "Dog Barf"	
	l Altimeter		Launch Pad	
	Rocket Motors		Launch Controller + Safety Key	
	Motor Igniters + Backups		Flight Card	
Pre-Launch	ı Checklist			
☐ Inser	Recovery Material			
1	Remove payload section and both parachutes from	rocl	ket body.	
2	Insert very-loosely packed recovery material 2-3 boo	dy d	liameters long, and pack it gently	
	down into the base of the rocket body. If the materi	ial is	s too tightly packed the 'chutes	
	will not be ejected and your rocket will become a la	wn	dart.	
	Recovery wadding prevents hot ejection charge fron	n da	ımaging parachute.	
☐ Pack Parachutes & Shock Cord				
1	Review Step 6 of the printed directions that came w	ith '	your rocket for how to fold	
	parachutes.			
2	First pack rocket base parachute and shock cord.			
3	Next pack payload section parachute.			
4	Slide payload section into place on end of rocket bo	dy.		
Load	☐ Load Rocket Motor			
1	Insert motor into rocket motor mount.			
2	Insert and twist motor lock ring to secure motor into	o ro	cket.	
Instal	l Igniter			
Alwa	s wear safety glasses while handling rocket motors!			
1	Prepare igniters: remove single igniter from package	e, ch	neck to make sure wires do not	
	short (touch) anywhere except for within the combu	ustik	ole tip.	
2	Insert the combustible tip into the nozzle end of the	roc	cket motor until it is up against	
	the propellant grain inside. Bend the igniter leads b	ack	slightly and secure with the plug	
	or tube provided. After the igniter is secured, you m	ay l	pend the leads further out away	
	from the rocket.			
3	Make sure igniter leads do not short!			

Rocket is now ready for launch

Launch Procedure

	Start Altimeter, record voltage, turn off altimeter.			
	Fill out Flight Card and take it and rocket to RSO for initials.			
	Get Range Safety Officer (RSO) Approval.			
	Safety Key MUST be out of launch controller (LCO will do this step)			
	Open payload compartment, turn altimeter on, replace & close payload bay.			
	 Double check battery voltage. 			
	 Ensure pressure sensor is facing down toward motor, near air bleed holes. 			
	 Make sure payload bay is closed before 'ready' beep sounds. 			
	 Fully secure the plastic rivet. 			
	Take rocket and Flight Card to Launch Control Officer to be assigned a launch stand.			
	Slide rocket on to launch rod.			
	Attach alligator clips from launch controller to igniter ends.			
	Make sure alligator clips/igniters do not short! Use masking tape if needed.			
	Retire immediately to safe distance & prepare for launch.			
	Insert Safety Key, countdown & launch! (LCO will do this step)			
	Remove Safety Key immediately after launch (LCO will do this step).			
Misfir	re Procedure			
	Call "Misfire!" (LCO will do this step).			
	Remove Safety Key (LCO will do this step).			
	Wait 1 minute before approaching.			
	Remove rocket from launch stand, repair/replace motor assembly.			
	Begin launch procedure again.			
Post-l	Recovery Procedure			
	Recover both rocket body and payload section.			
	Altimeter will be beeping out max altitude. Record it and then remove altimeter from payload			
	bay.			
	Attach altimeter to computer, download flight data.			
	Remove expended motor.			
	Check rocket body, fins, nosecone, parachutes for damage.			
	Prepare for next flight.			