Astronomy Observations *Long Version*

Astronomy Merit Badge

For use when inclement weather on program date precludes star party activity and observation of Sun and Moon.

Scout Name:	
Unit #:	

Home Address:

REQUIREMENT 4

Instructions: At the Museum, ten constellations (four in the Zodiac) and eight stars (at least four of 1st magnitude or brighter) were observed. Repeat these observations in the real night sky. Have an adult verify the completion of these observations.

	Constellations	Stars
Adult S	ignature:	
Date:		

REQUIREMENT 5D

Instructions: Observe Venus or Jupiter with binoculars or a small telescope. Identify the planet selected and describe and/or sketch what you were able to observe:

REQUIREMENT 6A

Instructions: Sketch the face of the Moon and indicate at least five seas and five craters. Label these landmarks.



REQUIREMENT 6B

Instructions: Sketch the phase and the daily position of the Moon, at the same hour and place, for four days in a row. Include landmarks on the horizon such as hills, trees and buildings. Weather permitting, it is recommended that you begin these observations between three and seven days following a New Moon.

Explain the changes that you observe:

REQUIREMENT 8B

(In lieu of Requirement 8C due to inclement weather on program date)

Instructions: Plan and participate in a three-hour observation session that includes using binoculars or a telescope. List the celestial objects you want to observe, and find each on a star chart or in a guidebook.

Prepare an observing log or notebook. Show your plan, charts and log or notebook to your counselor before making your observations. Review your log or notebook with your counselor afterward.

	OBSERVATION LOG							
OBSERVAT	ION DATE:							
OBSERVAT	ION LOCATION:							
OBSERVATION START/END TIMES:				to				
Objects to	observe:							
	Constellation		St	ars Within				
	_ Ursa Major (Big Di _ Ursa Minor (Little _ Taurus* _ Auriga _ Gemini* _ Orion _ Canis Major _ Canis Minor _ Cancer _ Leo*			Polaris Aldebaran* Capella* Castor, Po Betelgeuse*, Sirius* Procyon* Regulus*	llux Rigel*			
Moon:	Circle Phase:	WAX CRESCENT WAX GIBBOUS WANE GIBBOUS WANE CRESCEN	5	FIRST QUAF FULL LAST QUAR				
Planets:	Circle Planet C	bserved:	JUPITER	SATURN	VENUS			

Upon completion, return to the Hiller Aviation Museum <u>with your Blue Card</u> and a selfaddressed, stamped envelope to have these Requirements and your Blue Card signed off. Make sure your address is full, complete and legible.

> Hiller Aviation Museum Attn: Weather Data 601 Skyway Rd. San Carlos, CA 94070