

		Feature	Date	Time	Seeing	Transparency	Latitude	Longitude
					E, VG, G, F, P	1-worst to 6-best		
Naked-Eye Objects	Special Objects	Old Moon in New Moon's Arms (Within 72 Hrs of new)						
		New Moon in Old Moon's Arms (Within 72 Hrs of new)						
		Crescent Moon, Waxing (Within 48 Hrs of new)						
		Crescent Moon, Waning (Within 48 Hrs of new)						
		Do any four, of for fun, try for all of them:						
		Man in the Moon (When full)						
		Woman in the Moon (When full)						
		Rabbit in the Moon (When full)						
		Cow Jumping Over the Moon (When gibbous)						
		Lion in the Moon (When full)						
		Crab in the Moon (When full)						
		Rabbit in the Moon Making Rice Cakes (When full)						
		Man Carrying Sticks in the Moon (When full)						
		Rona (a Woman) in the Moon (When full)						
		Frog in the Moon (When full)						
		Jack and Jill in the Moon (When full)						
		Hands on the Moon (When full)						
	Maria	Crisium						
		Fecunditatis						
		Frigoris						
		Humorum						
		Imbrium						
		Nectaris						
		Nubium						
		Oceanus Procellarum						
		Serenitatis						
		Tranquillitatis						
Binocular Objects	Binocular Objects	Instruments Used						
		Lunar Rays						
		Mare Vaporum						
		Palus Epidemiarum						
		Palus Somnii						
		Sinus Iridum						
		Sinus Medii						
		Sinus Roris						
	Craters ~4 Days old	Atlas						
		Cleomedes						
		Endymion						
		Hercules						
		Langrenus						
		Macrobius						
		Petavius						
		Vendelinus						

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Binocular Objects	Craters ~7 Days old	Albategnius						
		Aristillus						
		Aristoteles						
		Autolykus						
		Cassini						
		Catharina						
		Cyrrillus						
		Eudoxus						
		Fracastorius						
		Hipparchus						
		Maurolykus						
		Piccolomini						
		Posidonius						
		Theophilus						
	Craters ~10 Days old	Alphonsus						
		Archimedes						
		Arzachel						
		Bullialdus						
		Clavius						
		Copernicus						
		Eratosthenes						
		Gassendi						
		Longomontanus						
		Maginus						
		Plato						
		Ptolemaeus						
		Tycho						
		Walther						
	Cr. ~14 Days old	Aristarchus						
		Grimaldi						
		Kepler						
Telescope Objects	Research the best times to observe these objects	Instruments Used						
		Lacus Mortis						
		Mons Hadley						
		Mons Pico						
		Mons Piton						
		Montes Alpes						
		Montes Apenninus						
		Palus Putredinis						
		Promontorium Agarum						
		Promontorium Heraclides						
		Promontorium Laplace						
		Rima Hyginus						
		Rupes Altai						
		Rupes Recta (straight wall)						
		Sinus Aestuum						
		Vallis Alpes						
		Vallis Schroteri						

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Telescope Objects	Craters ~4 Days old	Furnerius						
		Messier/Messier A						
		Mitchell						
		Petavius Wall						
		Picard						
		Plinius						
	Craters ~7 Days old	Cassini A						
		Cassini B						
		Cassini C						
		Gemma Frisius						
		Manilius						
	Craters ~10 Days old	Clavius craterlets						
		Davy						
		Fra Mauro						
		Hippalus						
		J Herschel						
		Pitatus						
	Cr. ~14 Days old	Billy						
		Reiner Gamma						
		Schickard						
Optional Objects - Each counts as 2 observations	Naked-Eye	Estimate third quarter phase within eight hours.						
		Estimate full moon within thirty-six hours.						
		Plot moon's position against the stars for three consecutive days.						
		Compare the size of the full moon on the horizon with the full moon on the meridian using a dime held at arm's length.						
		Find the thinnest phase by which you can read newsprint.						
	Bino.	Sketch libration - use Mare Crisium or Grimaldi for examples.						
		Sketch a lunar map - use any scale for binoculars only.						
	Tel.	Plot the moon's hourly motion against the stars for two hours or more.						
		Measure the height of a lunar mountain - need to calculate the sun's elevation at the mountain and estimate the shadow length - try Mt. Piton.						