Part 1 – Back to the appearance	Part 1 – Back to the appearance of modern humans				
Barnard's Star	5.96ly	2014 - Rosetta and Philae lander approaching			
		rendezvous with Comet 67P/Churyumov-			
		Gerasimenko			
61 cygni	10.4 ly	2010 - First potentially habitable planets discovered			
		round Gliese 581 system.			
		Patrick Moore presenting Sky At Night.			
Altair	17 ly	2003 – Loss of Space Shuttle "Columbia" with the 7			
		crew			
Vega	25 ly	1995 - First "Toy Story" film released and launch of			
		Windows 95 (duh!)			
Pollux	34 ly	1986 – Chernobyl disaster			
Denebola	36 ly	1984 – Torvill and Dean, Band Aid single,			
		Ghostbusters, Half pennies withdrawn			
Arcturus	37 ly	1983 – Compact Discs arrive, Pound coins			
		introduced			
Rasalhague	47 ly	1973 - Skylab, the first American space station, is			
		launched			
Castor	52 ly	1968 - 2001: A Space Odyssey is released.			
		Apollo 8 becomes the first manned spacecraft to			
		orbit the moon.			
Mizar	78 ly	1942 - World War 2			
		The U.S. government establishes the Manhattan			
		Project, led by Robert Oppenheimer, to coordinate			
		ongoing American efforts to design and build the			
		atomic bomb.			
Alcor	81 ly	1939 – Outbreak of World War 2			
Alkaid	100 ly	1920 – Edwin Hubble begins work to prove that the			
		universe extends beyond the Milky Way galaxy.			
Dubhe	120 ly	1900 - Max Planck formulates an energy theory,			
		postulating the existence of "quanta," which lays			
		the groundwork for the quantum theory of modern			
		physics.			
Schedar	230 ly	1790 – The French Revolution			
Melotte 111 Open cluster	300 ly	Edmond Halley is appointed as Astronomer Royal			
NGC4725		for England.			
Albireo	385 ly	1635 - Robert Hooke, English scientist and inventor			
		born			
		Galileo under house arrest till the end of his life for			
		heresy saying that the earth in not the centre of the			
		universe.			
Polaris	430 ly	1590 – Lipperhey and Janssen invent the first			
		system for observing objects at a distance. These			
		become the precursors of the microscope and			
Antoros	EEO h:	telescope.			
Antares	550 IY	1470 - Wars of the Roses: Henry VI of England			
		defeate Verkiets in battle			
M44 Poobiro	E77 b/	UCICALS TURNESS III DALLIE			
	577 IY	England and France			
M27	1 200 1	20 Pattles between between Mersians Messar			
11/27	1,200 IY	ozu – battles between between Mercians, Wessex			

		and their common enemies, the Danes.
		Offa's Dyke recently completed along the
		English/Welsh border via Hay, Knighton and
		Llangollen.
Sadr	1,500 ly	520 - The Kingdom of East Anglia is formed, by the
M34 Open	1,500 ly	merging of the English counties of Norfolk and
		Suffolk,
M97 Owl	2,025 ly	6 BC –Believed to be the approximate date of the
		birth of Jesus.
M57	2,870 ly	851 BC - Homer composes the <i>lliad</i> and <i>Odyssey</i> .
NGC 884	6700 ly	~5000 BC - Holocene - The islands of Great Britain
		and Ireland were now severed from continental
		Europe by rising sea water.
M13	25,000 ly	Pleistocene – Frequent Ice Ages covering Great
		Britain - Mammoths, Mastodons common
M3 Globular	34,000 ly	Upper Paleolithic – Homo Sapiens begin expansion
		out of Africa – Neanderthals becoming extinct.
M53 Globular	58,000 ly	Meteorite hits what is now Arizona forming Meteor
NGC5053 Globular	58,000 ly	Crater.
Small Magellanic Cloud	130,000 ly	Not visible from UK but the only stopping off points
Large Magellanic Cloud	206,000 ly	left when there might be human life resembling
		Homo Sapiens on earth.
		Straight tusked elephants roam UK and Europe
Part 2 – Before modern humans	to the first life	e on earth
M31	2.5 million	Pliocene - Co-existence of Homo Habilis and Homo
	ly	Erectus
M81 M82	11 million	Miocene - The ancestors of humans had split away
	ly	from the ancestors of the chimpanzees to follow
		their own evolutionary path
M94 Face on spiral	14 million	The Nördlinger Ries and Steinheim impact craters
	ly	formed leading to a large circular depression in
		western Bavaria, Germany. The resulting explosion
		had the power of 1.8 million Hiroshima bombs.
		The two craters are believed to have formed nearly
		simultaneously by the impact of a binary asteroid
NGC4244 Silver Needle galaxy	14 million	Miocene - The apes first evolved, arose, and
	ly	diversified.
		Megalodon: The World's Biggest Shark appears.
		Extinct 1.6 million years ago.
M64 Black Eye Galaxy	1	
	17 million	Possible human evolutionary ancestors such as
	17 million ly	Possible human evolutionary ancestors such as Victoriapithecus evolved during this time interval.
NGC4631 Whale galaxy	17 million ly 22 million	Possible human evolutionary ancestors such as Victoriapithecus evolved during this time interval. The family of Hominidae (great apes) appeared 20
NGC4631 Whale galaxy	17 million ly 22 million ly	Possible human evolutionary ancestors such as Victoriapithecus evolved during this time interval. The family of Hominidae (great apes) appeared 20 million years ago, concurrent with the appearance
NGC4631 Whale galaxy	17 million ly 22 million ly	Possible human evolutionary ancestors such as Victoriapithecus evolved during this time interval. The family of Hominidae (great apes) appeared 20 million years ago, concurrent with the appearance of giraffes, hyenas, bears and giant anteaters. Birds
NGC4631 Whale galaxy	17 million ly 22 million ly	Possible human evolutionary ancestors such as Victoriapithecus evolved during this time interval. The family of Hominidae (great apes) appeared 20 million years ago, concurrent with the appearance of giraffes, hyenas, bears and giant anteaters. Birds increased in diversity around this time. The oxygen

M106	24 million	Oligocene - Australia separates from Antarctica
	ly	India crashes into Asia creating the Himalayan
		Mountains. Antarctica is covered by glaciers . Sea
		levels are low
M51	27 million	Terror birds, large carnivorous flightless birds that
	ly	were the largest species of apex predators roam
		South America
NGC 4656 Hockey Stick	30 million	The eruption that created the La Garita Caldera in
	ly	Colorado is among the largest known volcanic
		eruptions in Earth's history, as well as being one of
		the most powerful known supervolcanic events.
		5,000 times more powerful than the largest
		hydrogen bomb.
M63 Sunflower	34 million	Eocene - The initiation of the Antarctic Circumpolar
	ly	Current, and a change to a colder Antarctic climate
		is associated with the opening of the Drake Passage
		between South America and Antarctica.
		The Chesapeake Bay impact crater was formed by a
		bolide that impacted the eastern shore of North
		America. The impact crater created a long-lasting
		topographic depression which helped predetermine
		the course of local rivers and the eventual location
		of the Chesapeake Bay.
NGC4485 and NGC4490 Cocoon	40 million	The Antarctic was home to a species of frog, when
	ly	the now icy region was once much warmer and
		temperate
M87	58 million	Europe has a tropical climate.
	ly	The tarsier, a primate with enormous eyes to help it
NGC4414 Spiral	58 million	see at night, splits from the rest of the haplorrhines:
	ly	the first to do so.
M90	61 million	The primates split into two groups, known as the
	ly	haplorrhines (dry-nosed primates) and the
		strepsirrhines (wet-nosed primates). The
		strepsirrhines eventually become the modern
		lemurs and aye-ayes, while the haplorrhines
		develop into monkeys and apes – and humans.
M85	65 million	An asteroid hits the Vucatan peninsula in Mexico
10105		and gouges a hole 20 times as deen as the Grand
	'y	Canyon wining out most life on earth including all
		the giant rentiles: the dinosaurs interosaurs
		ichthyosaurs and plesiosaurs. The ammonites are
		also wined out. The extinction clears the way for
		the mammals, which go on to dominate the planet
NGC3892 spiral	68 million	Grasses evolve – though it will be several million
	ly	years before the vast open grasslands appear.
		The most widely known dinosaurs, Tyrannosaurus,

The Time Telescope - Summer – To be viewed in May/June

		Triceratops and Velociraptor roam the earth.
NGC5005	81 million ly	Dinosaurs become more widespread
NGC4921	319 million ly	Carboniferous - The pelycosaurs, the first major group of synapsid animals, dominate the land. The most famous example is Dimetrodon, a large predatory "reptile" with a sail on its back. Despite appearances, Dimetrodon is not a dinosaur. The Permian period ends with the greatest mass extinction in Earth's history, wiping out great swathes of species, including the last of the trilobites.
NGC4874	340 million ly	The coal beds of Europe and North America are laid down by vast forests.
NGC4889	390 million ly	Devonian - Age of the fishes The first four-legged animals, or tetrapods, evolve from intermediate species such as Tiktaalik, probably in shallow freshwater habitats. The tetrapods go on to conquer the land, and give rise to all amphibians, reptiles, birds and mammals . Tthe oldest known insect lives around this time.
3c 273 Quasar	2.5 billion ly	Earth freezes over in what may have been the first "snowball Earth", possibly as a result of a lack of volcanic activity. When the ice eventually melts, it indirectly leads to more oxygen being released into the atmosphere. Viruses are present by this time, but they may be as old as life itself.
Jupiter and Saturn	778m km 1420m km	On the way back to the present day, just time to stop at Saturn 105 minutes ago and Jupiter, 41 minutes ago