

	Category: Telescopes	
	Answers	Questions
100	This mountain is the location of the giant 200-inch reflecting telescope.	What is Mount Palomar?
200	Henrietta Leavitt worked at this observatory.	What are the Harvard Observatory?
300	This type of telescope does not receive visible light.	What is a radio telescope?
400	The 100-inch Hooker telescope is found here.	What is Mount Wilson Observatory?
500	This radio telescope is at Jodrell Bank in England.	What is the 250-foot Mark 1?

	Category:Death of a Genius	Questions about the life, work and death of Albert Einstein.
	Answers	Questions
100	This is how Einstein died.	What is "in his sleep"?
200	Einstein was this nationality.	What is German?
300	Einstein died on this date.	What is April 18?
400	This was the cause of Einstein's death.	What are complications of a lingering, gall bladder infection?
500	She did not speak German when she was at his deathbed.	Who is his nurse?

	Category:Albert Einstein	
	Answers	Questions
100	Einstein smoked one.	What is a pipe?
200	His most famous equation.	What is $E = mc^2$?
300	Einstein rethought the theory of light in this manner.	What is not just waves, but particles?
400	The basis of all modern physics.	What are Einstein's ideas, taken all together?
500	His theory of gravitation does this to space and time.	What is bends them?

	Category: Elements in Space	
	Answers	Questions
100	The most abundant element in the universe.	What is hydrogen?
200	This type of element comes from fusion in stars.	What are the heavy elements?
300	This man showed that the mixture of elements we see did not come only from the early universe	Who is George Gamow?
400	As stars age and die they disperse the heavier elements around galaxies and produce these.	What are stars with rocky planets around them?
500	This explosion manufactures heavy element.s	What is a super nova?

	Category: Starts with M	All the answers include a word starting with M
	Answers	Questions
100	What 'E' equals.	What is mc^2 ?
200	Our home galaxy.	What is the Milky Way?
300	Home of the 200 inch glass reflecting telescope.	What is Mount Palomar?
400	Junior galaxies outside of the Milky Way.	What are the Magellanic Clouds?
500	He found no hydrogen in 9 Type I supernova spectra.	Who is (Rudolph) Minkowski?

HS	Category: The Universe	
	Answers	Questions
100	A radio antenna listens for these.	What are celestial radio sources?
200	The largest radio telescope in 1955.	What was the Mark I at Jodrell Bank?
300	They introduces the idea of supernovae.	Who are Zwicky and Baade?
400	The junior galaxies outside the Milky Way.	What are the Magellanic Clouds?
500	This is the difference between Type I and Type II supernovae.	What is the presence or absense of hydrogen in the spectrum?

MS	Category: The Universe	
	Answers	Questions
100	A “new” star.	What is a nova?
200	A yardstick for measuring distances to Cepheid variables.	What is the brightness/pulsation relationship?
300	One of two people who introduced the idea of novae and super-novae.	Who is Zwicky OR Baade?
400	The largest radio telescope in 1955.	What was the Mark I at Jodrell Bank?
500	This is the difference between a Type II and Type I supernovae.	What is the amount of hydrogen in the Spectrum?

	Category: Big Bang or Steady State?	Every question is either What is the big bang? or What is the steady state theory?
	Answers	Questions
100	Started with an explosion.	What is the Big Bang?
200	Has residual heat in the form of microwaves.	What is the Big Bang?
300	Not static, but like a river flowing through time.	What is the Steady State?
400	Recession of galaxies slows with time.	What is the Big Bang?
500	Has a continuous bubbling up of hydrogen.	What is the Steady State?

HS	Category: Big Bang Model vs. Steady State Model	Suitable Answers and questions for double jeopardy
	Answers	Questions
200	This was developed by Fred Hoyle, Hermann Bondi and Tommy Gold in 1947 after seeing the movie <i>Dead of Night</i> .	What is the Steady State Universe Model?
400	Theory that was originally called this before “big bang” was coined for it in 1950.	What is the Evolutionary Theory?
600	One of the two conflicting models of the universe, proposed in the 1950’s, it states that expansion of the universe should slow down, while its competitor stated that expansion of the universe should be constant.	What is the Big Bang Model?
800	*DAILY DOUBLE* Part of the Steady State Universe Model that stated that the Universe is the same at any place and at any time.	What is the Perfect Cosmological Principle?
1000	The Steady State model says that this dimensional quality of the universe is constant, while the Big Bang model states that it is dynamic and changeable.	What is the density of the universe?

	Category: Potpourri	
	Answers	Questions
200	A type of pulsating star used to determine distances in the Universe.	What is a Cepheid variable?
400	This supernovae has no telltale lines of hydrogen in the spectrum.	What is a Type I supernova?
600	This can be referred to as a “Star of Steel”	What is a super nova?
800	Studies of globular clusters in Andromeda and M33 in the early 1930s lead to this idea.	What is the under calculation of size of the universe?
1000	An error in the calibration of this idea leading to an under calculation of distances in space.	What is the Cepheid period luminosity relationship?

	Category: Astronomers	
	Answers	Questions
100	An astronomer who used city blackouts to study the galaxies in 1944.	Who was (Walter) Bade?
200	An astronomer at University of Manchester near Jodrell Bank who designed the Mark 1 telescope	Who was (Bernard) Lovell?
300	She discovered the relationship between pulsation rate and luminosity of Cepheid variables.	Who was Henrietta Leavitt?
400	She was Dr. Baade's computer assistant.	Who was Henrietta Swope?
500	<p>*DAILY DOUBLE* These three astronomers called on an explosion and decay of a hot ball of neutrons at the birth of the universe.</p> <p>MS – ask for two names</p>	Who are (Ralph) Apher, (Hans) Bethe, and (George) Gamov?

	Category: Nova vs. Supernova	Every answer is Novae or Supernovae or both
	Answers	Questions
100	All stars that brighten suddenly were originally called this.	What are novae?
200	Can be classified as Type I or Type II.	What are Supernovae?
300	A term for new stars.	What are Novae?
400	Minkowski determined the two classes of these.	What are supernovae?
500	These were observed by Kepler and Brahe.	What are Supernovae?

	Category: Death of Stars	
	Answers	Questions
100	This is seen when a star dies.	What is a nova? (What is a supernova? Is also acceptable)
200	This is the difference between a type I and a type II supernova	What is the absence (for Type I) or presence (for Type II) of hydrogen in the spectrum
300	He calculated that a nova in Andromeda was one hundred times more luminous than any recently observed in our galaxy.	Who is Hubble?
400	They coined the word supernova.	Who are Zwicky and Baade?
500	*DAILY DOUBLE* This is the person who determined the two classes of supernova and the year in which this was determined.	Who is Minkowski? And what is 1941?

	Category: UNIVERSE!!!	
	Answers	Questions
100	A common theory describing the origin of the expanding universe.	What is Big Bang Theory?
200	In 1955, this was thought to be the age of the universe.	What is 6 billion years?
300	In 1955, this was thought to be the size of the universe.	What is 2 billion light years?
400	He came up with the name for the Big Bang theory.	Who is Hoyle?
500	Evolutionary theory is the original name for this theory.	What is the big bang theory??

	Category: He Said She Said	All questions are “who said the quote”
	Answers	Questions
100	He said of Einstein: “No other man contributed so much to the vast expansion of 20th century knowledge.”	Who is President Eisenhower?
200	This described Einstein as “a great transformer of science.”	What is Pravda? (MS accept a Soviet newspaper)
300	He said, “It is an irrational process that cannot be described in scientific terms ... [nor] challenged by an appeal to observation.”	Who is (Fred) Hoyle?
400	He said of Einstein: “The world has lost its foremost genius.”	Who is Moshe Sharett, the Prime Minister of Israel MS – accept Prime Minister of Israel
500	He said, “Thus a period-luminosity relation was established which covered the whole range of the Cepheid variation and which was accepted as the period-luminosity relation for the next 30 years.”	Who is Baade?

Category: A Bigger Universe		
	Answers	Questions
100	In 1952, the universe became this much larger than previously thought.	What twice as big?
200	He noticed a problem when he studied globular clusters in Andromeda and M33.	Who is Hubble?
300	Globular clusters in the Andromeda Galaxy were this much dimmer than those in the Milky Way.	What is 1.5 magnitudes?
400	He took advantage of blackouts during the war to take detailed measurements of the Andromeda galaxy.	Who is (Walter) Baade?
500	An error in the calibration of the Cepheid period-luminosity relationships led to this error.	What is the under-calculation of the size of the universe by about half?

MS	Category: A Bigger Universe	
	Answers	Questions
100	In 1952, the universe became this much larger than previously thought.	What twice as big?
200	He noticed a mismatch when he studied globular clusters in Andromeda.	Who is Hubble?
300	A cubit is this many inches.	What is 18 inches?
400	He measured the brightness of clusters in the Andromeda galaxy during the blackouts during WWII.	Who is (Walter) Baade?
500	Bluer, brighter stars and redder, fainter stars.	What are Type I and Type II stars?