

Big Bang Webquest

Name	Date	Pd. 1	2	3	4

Task 1- Watch this video: Big Bang Crash Course

<u>Helpful Link</u>

. What did observations between 1912 and 1917 show?
. What did Lemaitres propose the universe was doing?
. What important discovery did Hubble and his assistant discover about galaxies?
. What does that mean the universe is doing?
. What does that mean the universe use to be?
By observing very distant objects, what can scientists do?
. What was discovered in 1965?
s. Does the universe have a center?
. How old do we think the universe is?
ask 2- Use the following link to answer the questions below Story of the Universe
0. What is The Big Bang Theory? And don't say "A TV show on CBS." []
1. The Big Bang happened about years ago.
2, andall began with the Big Ban
3. What happened following the Big Bang to allow protons and neutrons to come together to form atoms and
ventually atoms to come together to form different elements?

Task 3- Use the following link to answer the questions below <u>Universe 101</u>

	a) Evidence of the	of the universe. In the year	, Edwin Hubble
	observed that galaxies were generally receivinght	ding from us provided the first clue that the Big	Bang theory might be
	_	(H, He, Li) in the universe	e is almost exactly as
		e first fused within the	
		radiation is the remnant heat le	
	Bang.		
	Use the following link to answer the quest Expansion of the Universe	ions below <u>Universe 101 "Big Bang Tests"</u>	
ait I. i	expansion of the oniverse		
15.	Why did Einstein develop the "cosmologica	al constant"?	
16.	Which theory was the natural beginning of	a Big Bang theory?	
17.	Who showed that the universe was indeed	expanding?	
18.	According to the expansion law do the gala	xies expand away from each other equally? Expl	lain.
art 2: ⁻	The Abundance of Light Elements		
19.	What is nucleosynthesis?		
20.	What is Big Bang nucleosynthesis?		
21.	What was the universe like immediately aft	ter the Big Bang started?	
22.	How much of the universe's ordinary matter	er is thought to be helium?	
23.	Does Big Bang theory support this number	?	
		ome from?	

Part 3:	Cosmic Microwave Background Radiation			
26.	26. What is CMB? Explain			
27.	Who predicted the existence of CMB?			
	Who discovered CMB?			
	Describe the CMB as it exists today.			
30.	How old is the universe thought to be? (Also Age of the Universe)			
31.	What event was thought to occur about 400,000 years after the Big Bang?			
32.	What is the most striking characteristic of the CMB?			
0				
Task5-	Use the following link to answer the questions below Universe 101 "Beyond the Big Bang"			
	Structure			
	How do most cosmologists believe galaxies today grew?			
34.	When was the universe one thousandth its present size?			
25	What are 2 popular ideas of what cause fluctuations?			
33.	What are 2 popular ideas of what cause fluctuations?			
Part 2:	Fluctuations			
36.	What can offer great insight into the origin and evolution of the universe?			
Part 3:	Inflation			
37.	What is the inflation theory?			
38	What are the three problems with the Big Bang Theory?			
50.	The state and an ee problems that the signature of the state of the st			

39.	How does inflation solve the three problems with the Big Bang Theory? Use the following link to answer the questions below Ask an Astronomer				
Task 6-					
40.	Can we look back into time and see the beginning of the universe?				
Task 8-	Use the following link to answer the questions below BBC Article				
41.	What are the current theories on the end of the universe? Will it keep on expanding; or, will it slow down and start contracting (the « Big Crunch »)				