Quizlet

## 2

0 Multiple choice questions				
1. an electron emitted from a radioactive nucleus				
a. carbon cycle				
b. alpha particle				
c. black hole				
d. beta particle				
2. radiation emitted by a black body that obeys Planck's law				
a. black body radiation				
b. black hole				
c. black body				
d. accretion				
3. a high-energy photon emitted from a radioactive nucleus				
a. fusion				
b. atom				
c. galaxy				
d. gamma				
4. the process of dust grain colliding and coalescing; used to help explain the formation of the sun and planets				
a. fusion				
b. accretion				
c. atom				
d. cluster				
5. a group of stars , dust and gas bound together gravitationally; galaxies typically have billions of stars				
a. galaxy				
b. atom				
c. gamma				
d. fusion				
6. an ideallised body which absorbs all radiation that falls on it according to Planck's law				
a. black body				
b. galaxy				
c. black hole				

d. big bang

7.	a group of stars or galaxies whose members are sufficiently close to each other to be physically associated			
	a.	atom		
	b.	atmosphere		
	c.	cluster		
	d.	fusion		
8.	a spe	ectrum that shows a complete spread of colours from red to violet		
	a.	atmosphere		
	b.	carbon cycle		
	c.	cluster		
	d.	continuous spectrum		
9.	obse	pparent change in frequency (or wavelength) when there is relative motion between the source of waves and an rver; in astronomy, a star receding from us would experience a red shift in its spectrum; the Doppler effect can sed to determine distances to galaxies and the presence of spectroscopic binaries		
	a.	cluster		
	b.	Doppler effect		
	c.	black hole		
	d.	atmosphere		
10.		er in a highly dense form that can exert a pressure, as a result of certain quantum-mechanical effects; this sure stabilises a white dwarf against the gravitational force		
	a.	degenerate matter		
	b.	Doppler effect		
	c.	gamma		
	d.	carbon cycle		
11.	the a	verage distance from the earth to the sun; equal to 1.5 x10^11		
	a.	atom		
	b.	astronomical units		
	c.	carbon cycle		
	d.	accretion		
12.	the la	ayer of gas surrounding a planet		
	a.	atmosphere		
	b.	atom		
	c.	black hole		
	d.	cluster		

13.	a chain of nuclear fusion reactions by which energy may be generated in stars			
	a. atmosphere			
	b. black hole			
	c. cosmology			
	d. carbon cycle			
14.	he smallest part of an element that has all the properties of the element			
	a. gamma			
	b. galaxy			
	c. atom			
	d. fusion			
15.	he intensity of light or other radiation emitted or received from a celestial body			
	a. brightness			
	b. cluster			
	c. big bang			
	d. galaxy			
16.	n explosion which is postulated to have begun the expansion of the universe approximately 15 billion	years ago		
	a. galaxy			
	b. brightness			
	c. fusion			
	d. big bang			
17.	he process by which light nuclei join together to produce a heavier nucleus			
	a. gamma			
	b. atom			
	c. cluster			
	d. fusion			
18.	star which has collapsed under its own gravitation, to such an extent that its gravitational field is so in even light cannot escape from its surface	tense that		
	a. black body			
	b. atom			
	c. big bang			
	d. black hole			

- 19. a nucleus of helium-4 emitted from a nucleus of an atom undergoing radioactive decay
  - a. alpha particle
  - b. beta particle
  - c. black hole
  - d. carbon cycle
- 20. the study of the organisation, structure and evolution of the universe
  - a. gamma
  - b. fusion
  - c. galaxy
  - d. cosmology