Name Date

Notes: Star Life Cycle

1.	Gases (ex:) and Dust (ex:) start to clump together.	
	Gravity:	law: All partie	eles		
2.		: cloud of gas and	64	held together by	Smaller
	pieces may bre	eak off to form, i	1 too	small may form	
3.		due to		The temperature begins to	Cloud
	rotates and flat	ttens into a			
4.	Sta	ar: contractions in the core d	lue to), this is referred to as "nuc	; is fused to
	form	The star is "burning"		_, this is referred to as "nuc	lear burning".
5.		runs out in core; core		and stars	to find
	more hydroger	n in the, until a	ll the	e is gone.	
6.	: star now "burns"		in the core and in the shell. The star		
	pulses a few ti	mes during this time.			
7.	runs out as helium fuses into			into, when	helium is gone, it
	expands more.				
8.	runs out as carbon is fuses into				like,
	,	_, and			
9.	9. Depending on its the star will die in a variety of ways.				
		DEATH .	_		
	Dwarf Star	Star or		F	

W Dwarf Stars: have a mass of solar masses or less (<8M) looses their outer shell by solar _____ that develop, last for about 100,000 years. Core of _____ and _____ is exposed, being very hot, glows, ionizing the blown off _____ and _____, shows a ______ nebula around the white dwarf star.

Stars with mass around _____ M collapse and _____ in a ____. They are so _____ they can be seen in other galaxies. A _____ star is left behind. Called that because protons combine with electrons to produce neutrons in the core. This creates a supernova ______, a luminous nebula of gas and dust. The remaining star size can be about _____km across.

are neutron stars that are _____ at high speeds, producing a _____ of radiation that can ______ across Earth's orbit.

are neutron stars with magnetic fields _____ to _____ of times larger than those of radio-emitting pulsars. Can have ______ when magnetic fields shift, causing crust to ______ and emit ______ rays.

Black holes form from stars greater then _____, the collapse of the core is ______ stopped and collapses completely on itself.



