P1 Topic 5 Big Bang – Fact Sheet

Sound	
	Has a higher frequency (pitch)
1. Sound from an object moving towards you	Has a shorter wavelength
2. Sound from an object moving away	 Has a lower frequency (pitch)
	Has a longer wavelength
3. The effect of pitch changing as an ambulance	the Doppler effect
moves towards you is called	
4. Doppler effect applies to this type of wave	sound
Light from Galaxies	
5. When observing light from most distant	We see an increase in the wavelength
galaxies	of the light
6. The effect of light moving to an increased	Red Shift
wavelength due is called	
7. The red shift is bigger when	Galaxies are further away
8. The further away a galaxy is,	the faster it is moving away from us
9. In theory, if the Universe is expanding it <u>must</u>	a single point
have started from	a single point
10.This theory is called	The Big Bang theory
CMBR	
11.CMBR stands for	Cosmic Microwave Background
	Radiation
12.Where is CMBR found?	It fills the universe
13.What is CMBR?	Long wavelength (microwave)
	electromagnetic radiation
14.Where did CMBR come from?	From radiation that was present soon
	after the Universe began, which cooled as the Universe expanded
15.As space expands, what happens to the CMBR	It expands as well
16.What is the only theory which can explain	
CMBR?	The Big Bang theory