Year 8 Waves Fact Sheet

Waves	
1. What do waves transfer?	Energy
2. Name 2 types of wave	TransverseLongitudinal
3. Give an example of a transverse wave	LightAll electromagnetic waves
4. Give an example of a longitudinal wave	• Sound
5. What type of wave is shown here?	Transverse
6. Label the transverse wave	A: crest B: trough C: wave length D: amplitude
7. What type of wave is shown here?	Longitudinal
8. Label the longitudinal wave	A: wave length B: compression C: rarefaction

9. What do we call the number of waves per second?	Frequency		
10.What are the units for frequency?	Hertz/ Hz		
Sound			
11.What causes sound?	Vibrations		
12. A loud sound has a large	amplitude		
13.A high pitch sound has a high	Frequency		
14.In which state of matter does sound travel the fastest?	Solid		
Reflection			
15.What is it called when light hits a surface and bounces back?	Reflection		
16. What does this diagram show? Description of the content of	Reflection		
17. What is the name of the dashed line?	normal		
18.The angle of incidence =	the angle of reflection		
Refraction			
19.What is it called when waves appear to bend?	Refraction		

refraction		
When the wave travels along the normal		
Speed		
 Radio waves Microwaves Infra-red radiation Visible light Ultraviolet X-rays Gamma rays 		
TV and radio		
CookingSatellite communication		
 Electric heaters Cooking Remote controls		
Fibre optic communicationsTraffic lights		
Energy efficient lampsSun tanning		
Medical imagingMedical treatments		
UV (skin cancer), X rays, Gamma rays		