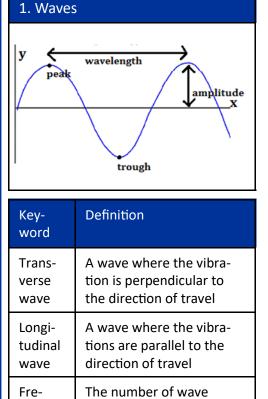


## Year 7 Light and Sound Knowledge Organiser





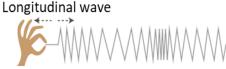
## Transverse wave

quency



fronts passing a fixed

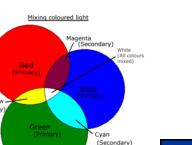
point every second (measured in Hz)



2. Light (transverse wave) Keywords		4. Co	
Reflection	Light bounces off sur- face		Prim Red
Primary col- ours	Red/Blue/Green r	nakes	Gree
			Blue
Eyes	Senses the light w	/e see	
Filters	Absorbs light of the same colour		
Transmitted/ Emitted	Light that is given out		Yellov (Secondary
Absorbed	Light that is taken		
Scattered	Light that is spread when it reflects		
Boundary	A place where lights bounces off or bends		

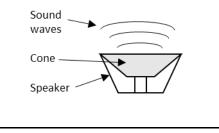
	3. Law of reflection	
Incidence angle	The angle made between the incident ray to the normal line	
Normal line	This line is 90 degrees to the mirror	
Reflected angle	The angle made between the reflected ray to the normal line	
Mirror	Light reflective surface	
Law of reflection	Angle of incident = angle of reflection	

4. Colours		
Primary colours	Secondary Colours	
Red	Magenta	
Green	Cyan	
Blue	Yellow	
	-	



## 5. Sound

Sound waves are produced by all vibrating objects. Loudspeakers work by converting electrical energy into kinetic energy. This moves the cone which creates the sound waves.



## 6. More sound

Humans can hear sound in the 20Hz – 20KHz range. Dogs can hear up to 50Hz

Sound travels faster through liquids and solids than it does through a gas because the particles in a gas are further apart

Substance	Speed of sound
Air	343 m/s
Water	1493 m/s
Steel	5130 m/s