

NATIONAL MODEL SCHOOL, COIMBATORE

CLASS 12 PHYSICS WORKSHEET

CH 8: ELECTROMAGNETIC SPECTRUM

Match the following:

Type of wave	Wavelength	Application
1. Radio Waves	700 nm to 400 nm	Remote control, Photography, Infra red lamps
2. Micro waves	$<10^{-3}$ nm	Chemical reaction, detected by human eye
3. Infrared	>0.1 m	Radiography, Photoelectric emission, Detecting cracks
4. Visible light	1nm to 10^{-3} nm	Radio Communication
5. Ultraviolet	0.1 m to 1mm	Malignant tumours, Radiotherapy, food preservation
6. X-rays	400 nm to 1 nm	Air craft navigation, microwave oven
7. Gamma rays	1mm to 700 nm	Food preservation, Finger prints, tanning of human skin