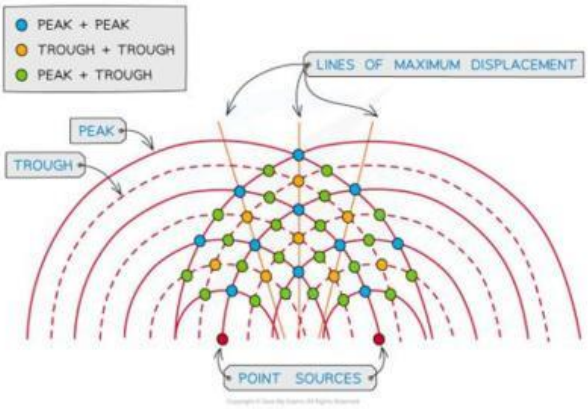
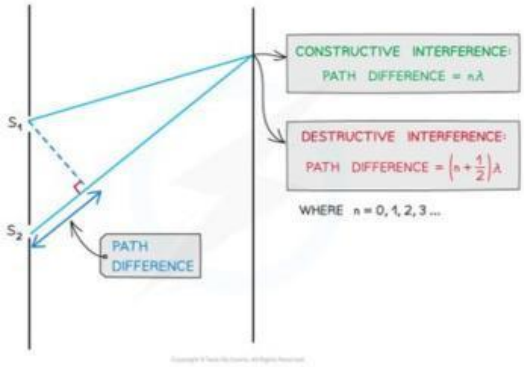
Two-source Interference

- Interference occur when two waves _____
- A two-source interference creates a pattern of _____ and _____ interference
- This pattern may be observed using ripple tanks, sound waves, light, and microwaves





- For interference to occur, the two sources must be ***coherent***
- *Coherent:*
  - *Constant* _____
  - *Same* _____

interference	path difference		phase difference	
_____	$n\lambda$	$n = 1,2,3,\ldots$	$n_e\pi$	$n_e = 2,4,6,\ldots$
_____	$\frac{n_o}{2}\lambda$	$n = 1,3,5,\ldots$	$n_o\pi$	$n = 1,3,5,\ldots$

LIVEWORKSHEETS