

# Appendix B

## Wave-Particle Duality Investigation

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### Instructions for Part 2 of Activity 4:

Place Wave A on the push pin centered on Slit A.

Place Wave B on the push pin centered on Slit B.

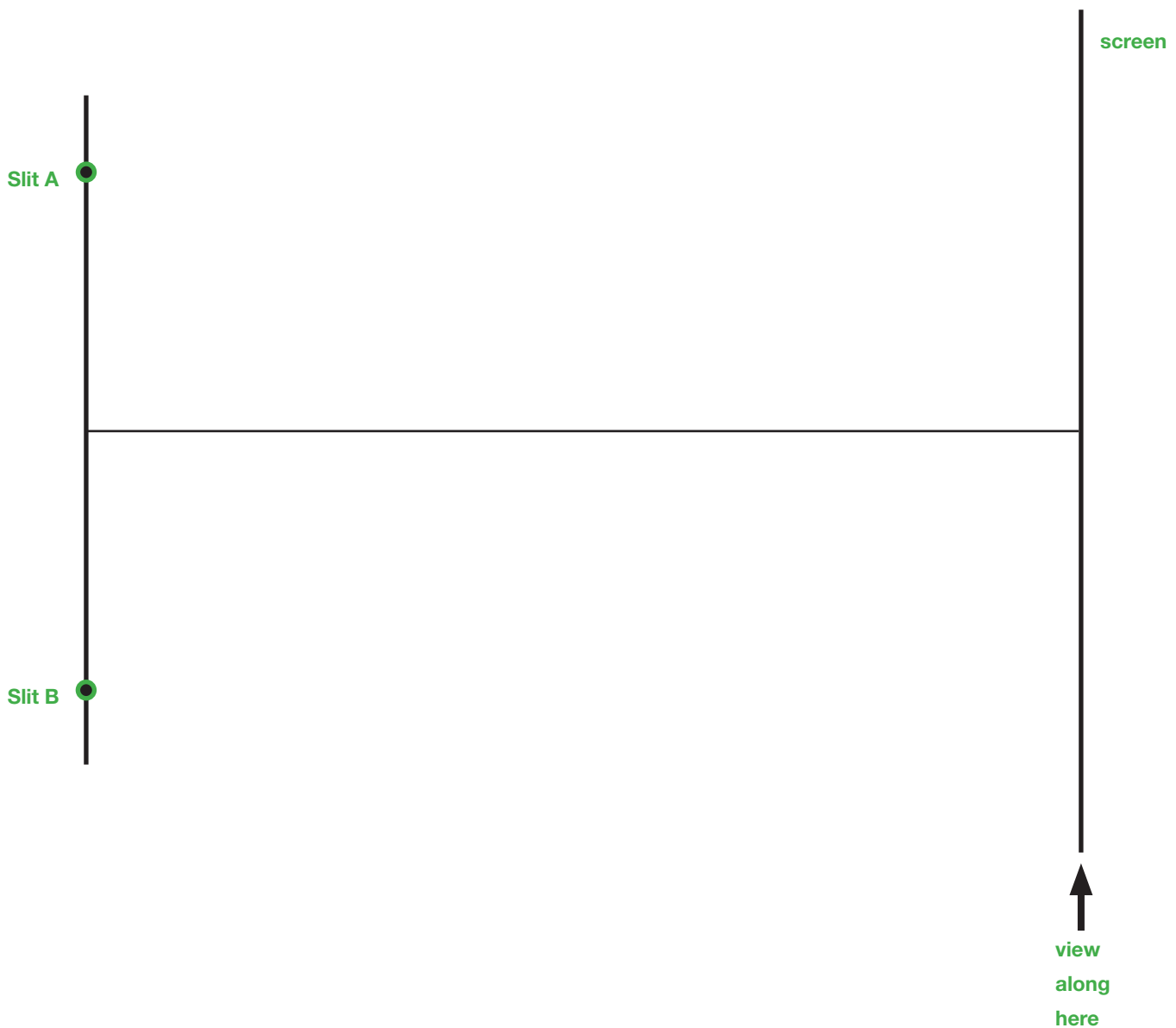
Pull the waves so they are taut and meet at the screen.

Start at one side of the screen and move along to the other side.

Keeping the waves taut, observe from the side looking along the screen.

Place a “C” on the screen whenever the waves add together to create total constructive interference.

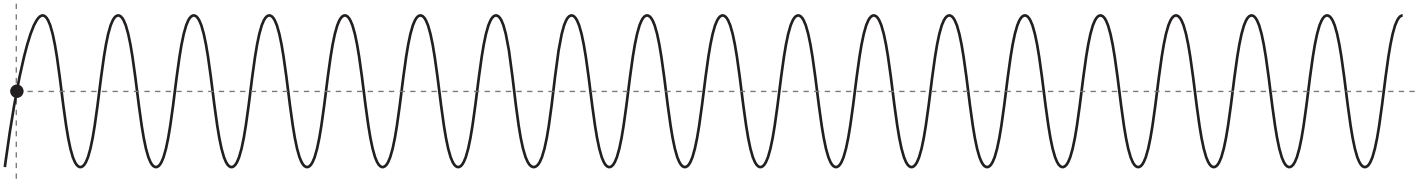
Place a “D” on the screen whenever the waves add together to produce total destructive interference.



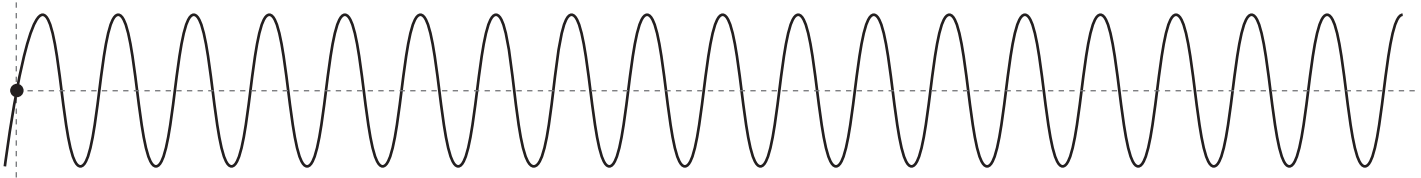
## Appendix B continued

Photocopy Waves A and B onto a transparency. Tape each wave to a large diameter straw and attach as shown in Figure 3 on page 18.

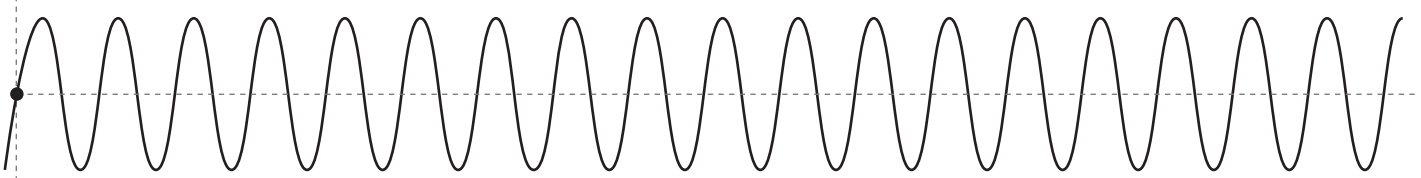
Wave B



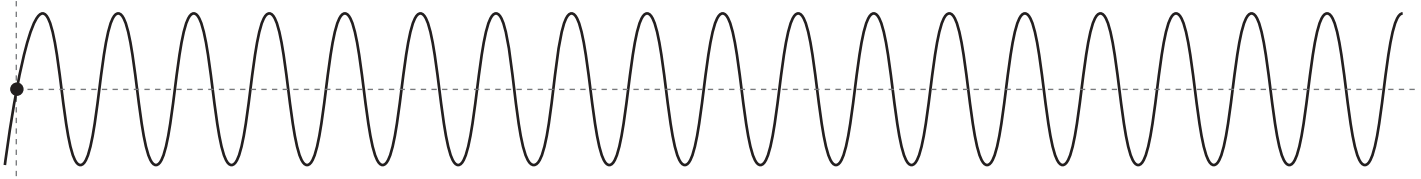
Wave A



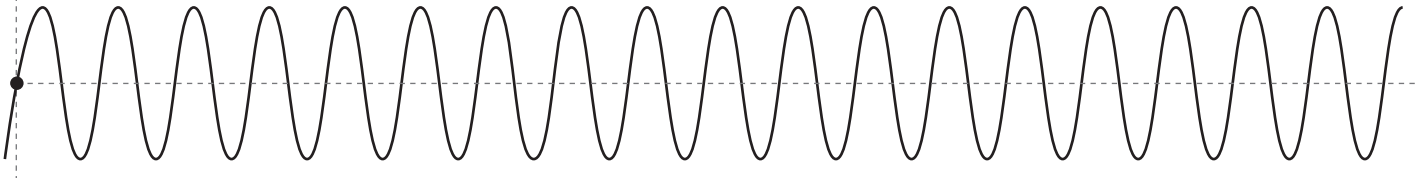
Wave B



Wave A



Wave B



Wave A

