

If you send the waves at a higher frequency, they just bunch up.



If you send them at a lower frequency, they spread out.



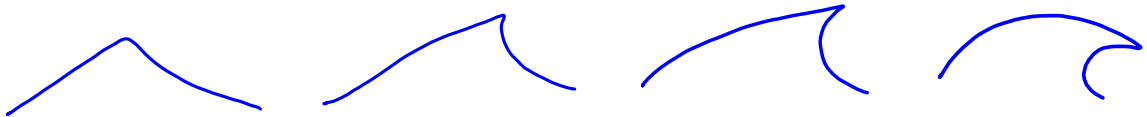
So what controls the speed of a wave?

The medium (what the wave travels through)

Sound depends on molecules moving over and hitting each other. What would make that happen faster?

Since **light** needs no medium, molecules only get in its way. What kinds of things will light move through easiest?

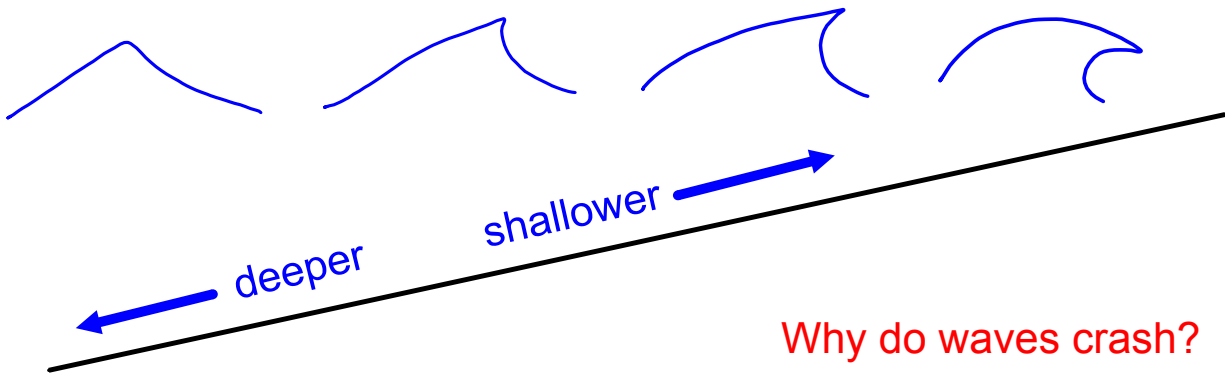
Why do waves break when they get near shore?



Depth of water determines the speed of a water wave.

Deeper water = faster

Shallow water = slower



Why do waves crash?

The bottom of the wave is being slowed down while the top is still doing the old speed.

