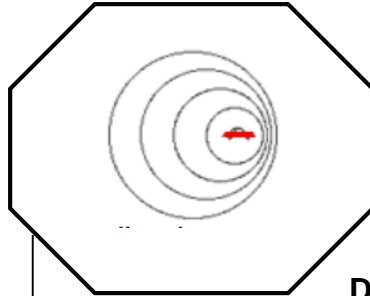


The FRAME

Key Topic The Doppler Effect

is about . . .

gathering evidence for how objects move in our universe using evidence from wave behavior.

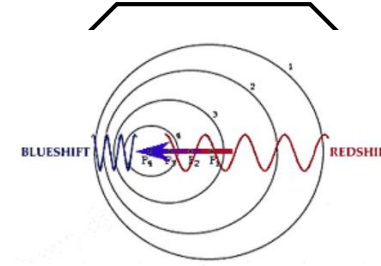


Main Idea

sound

Details

- High pitch moving toward you
- Low pitch moving away from you
- _____
- Police sirens moving toward
- and away from you shift pitch
- Police RADAR uses the doppler
- effect
- Allows you to predict the
- velocity of a moving object



Main Idea

light

Details

- Blue shift moving toward you
- Red shift moving away from you
- _____
- Almost everything is red shifted based on Hubble Telescope Observations
- _____
- Only stars move fast enough for this
- effect to be observed
- Means the universe is
- expanding
- Called Red Shift

Extension:
Draw and explain how the doppler effect would come into play for a bug walking on water.

So What?

We can use our observations of red shift and the doppler effect to support the big bang theory and the doppler effect to understand the shifts in frequency moving objects have.