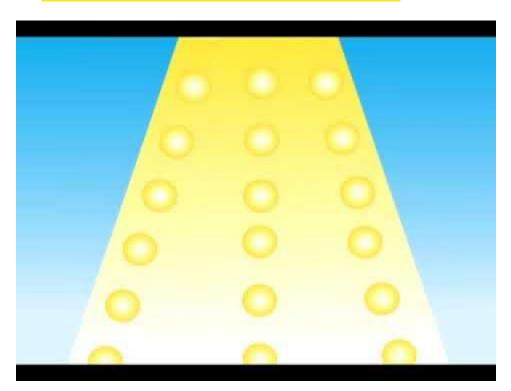
"Reading & Robotics"

01/19/19

Good morning students!

Today's themes are: The Electromagnetic spectrum and infrared light.

The Sun & light particles



Questions

- The sun gives off e____y
- The sun's e____ gives off L____
- Light is made of tiny pieces of M____r
- M____r is what makes up everything around us.
- A very small piece of M____ is called a p_____e
- Light P____ move in a wave
- Light moves faster than any other thing

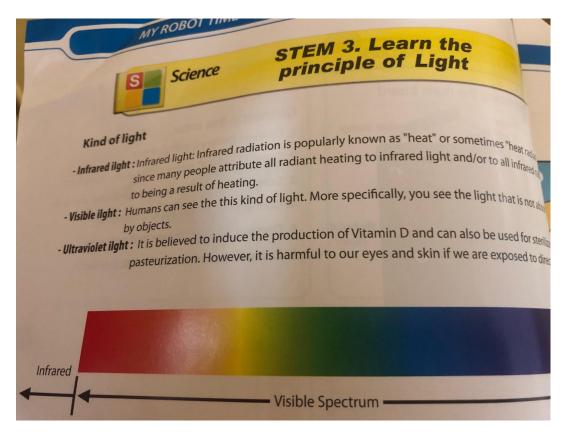
Electromagnetic Spectrum - Infrared waves (IR)



Electromagnetic Spectrum - Infrared waves (IR)

- Light waves are special waves called electromagnetic waves
- All electromagnetic waves travel at the same speed
- Radio rays, infrared rays, visible light, ultraviolet rays, x-rays & gamma rays, ultraviolet rays
- We will learn about infrared rays today!

Electromagnetic Spectrum - MRT3-2 page 26

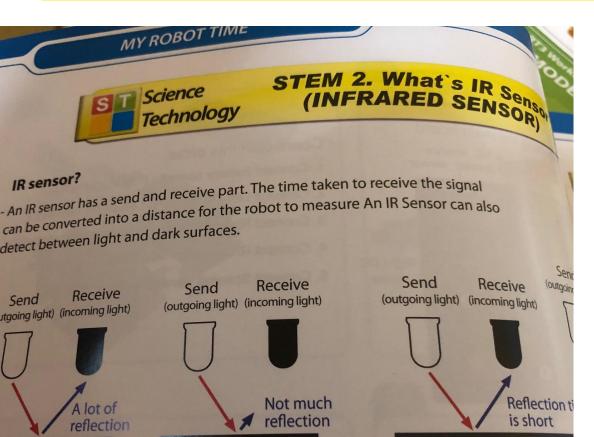


TODAY WE WILL DISCUSS ONLY ONE LIGHT RAY ON THE ELECTROMAGNETIC SPECTRUM

INFRARED LIGHT!

THE REMOTE CONTROL FOR THE ROBOT SENDS AND RECEIVES SIGNALS ON THE INFRARED SPECTRUM

THE REMOTE CONTROL - MRT3-2, page 18



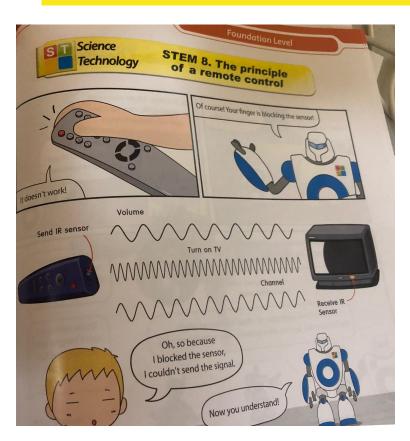
- The principle of a remote control
- Send on the remote
- Receive on the robot
- The robot brain translates the instructions from send unit to receive unit (via the program)

TIME TO READ! MRT3-2, Pg 56

The eyes of the Robot-IR Sensor 2

Form groups of 2 or 3 and take turns reading cartoon

More About The Remote Control



EXPLAIN HOW THIS REMOTE WORKS!

CREATE ROBOT - MRT3-2, pg 60



Use two IR sensors

Scratch Programming Team -- Create an animation that uses keys on the keyboard to control your sprite

- Use at least 4 keys
- Use a function on Scratch that you have never used before
- Do not use text on this project! Use sound or any other function.



Now it's time to swap teams everyone! Break down your robots and clear your Scratch programs!