Fcholocation: vichochet's Echo: a sound were bannes off of another object and returns to the sender. The time it takes for the sound to return to the sender tells you how for the object is from the sender Speed of sound = 340m/s Mach Mach 2 - 2 (340m/s) = 630 %

Ultrasounds

S is higher then we can hear > 20,000 Hz

Gel = helps sound waves get absorbed

Purpose: show muscles/bones/other belowskin

Gel Dine for wave to veturn = distance 2) strength of the wave that returns folls the 15 pe of material

MItrasound Sending and recieving Sound warrs (longitudinel) must be above 20,000 Hz Gel: helps The sound weres travel through the skin 1) We can tell The type of malerial by looking at the inknity of ware 2) Know The distance to That bonnes back the object by looking at The time it take of The war to return

Reflection Z types of boundaries: loose/Open Fixed/Closed The endis Stationary Constructive Interference Superposition when multiple weres interfer with each other