

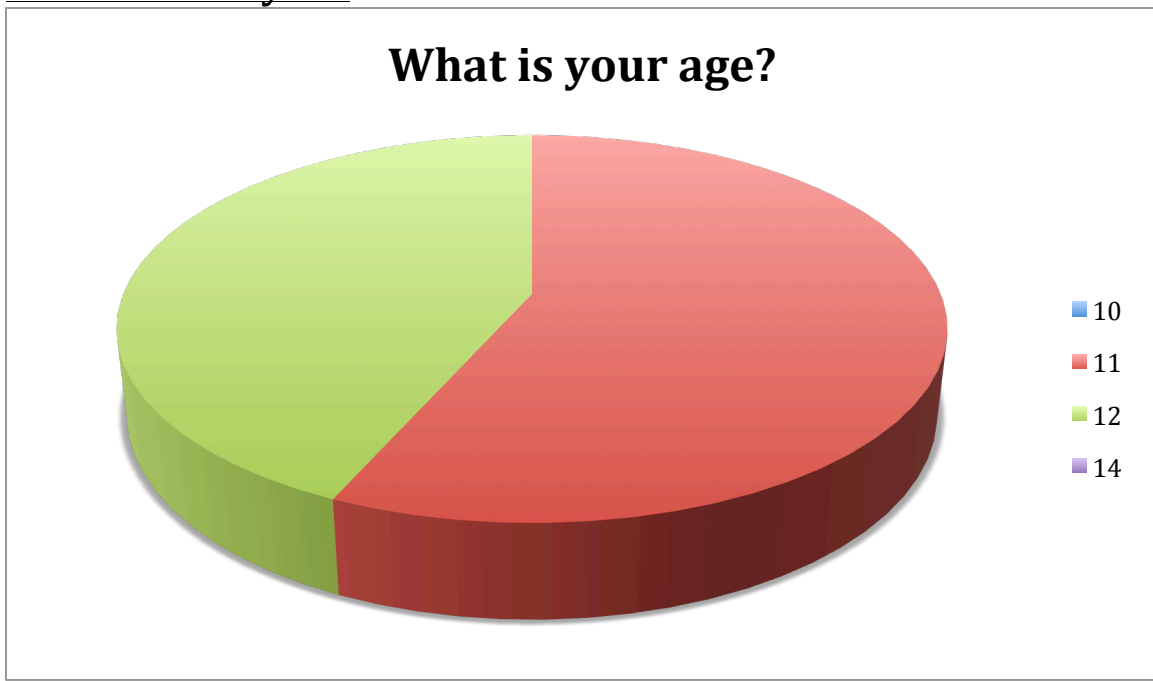
It's Getting Bright In Here! Thematic Unit Analysis Document, by Jenni Clyde

Learning Goals: In this thematic unit students will integrate language arts, math, social studies, and science in relation to light.

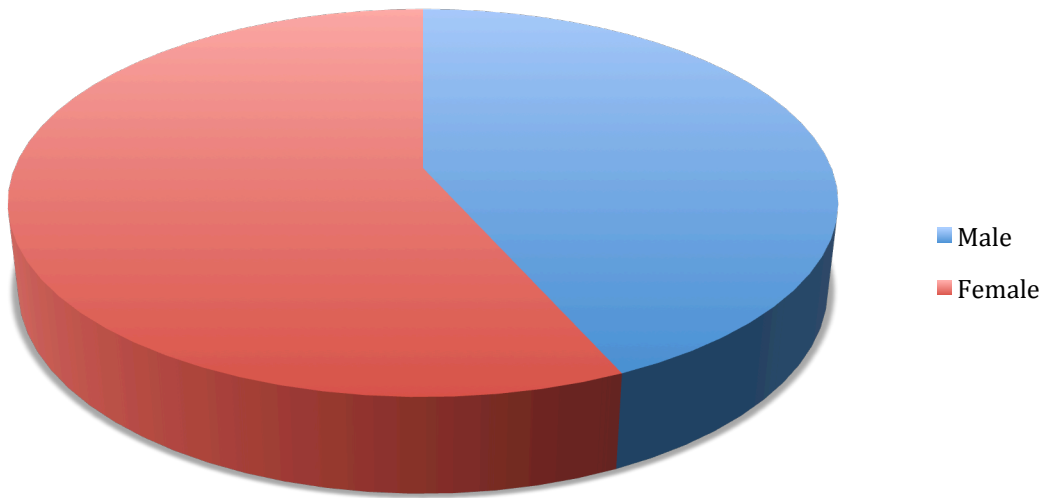
Needs Analysis:

Students need to define, understand origins, collect data and describe how light can be produced, reflected, refracted, and separated into visible light of various colors. Teacher will determine prior knowledge by giving students a pretest on light.

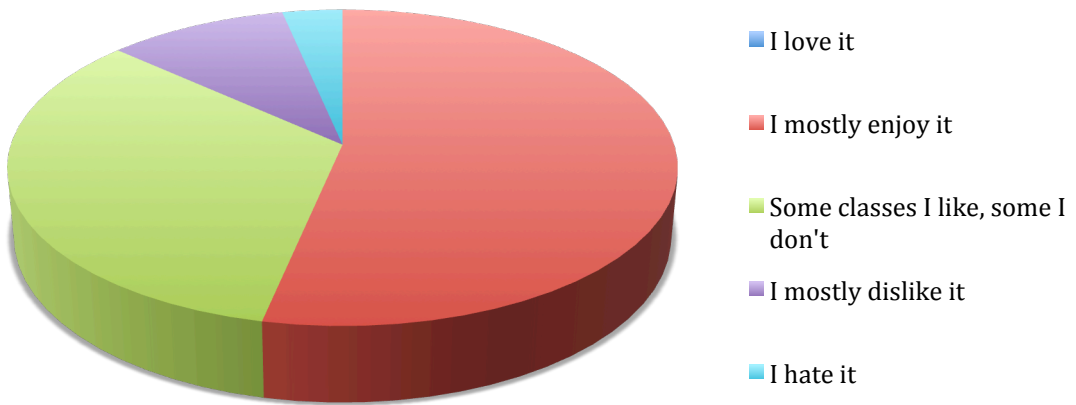
Learner Analysis:



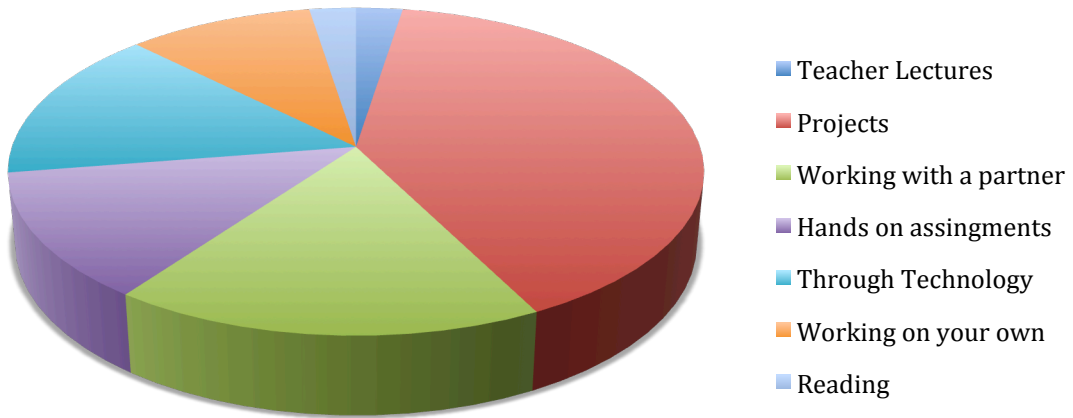
I am _____.



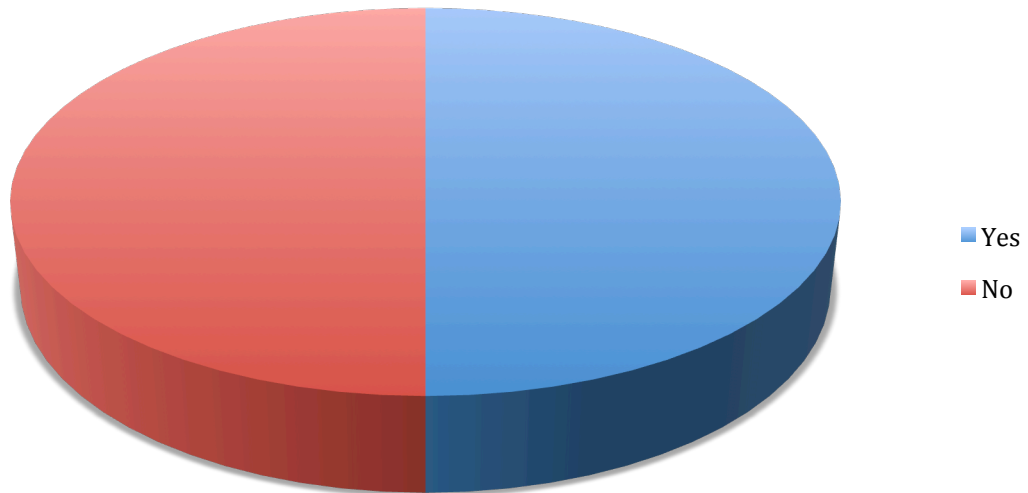
How do you feel about school?



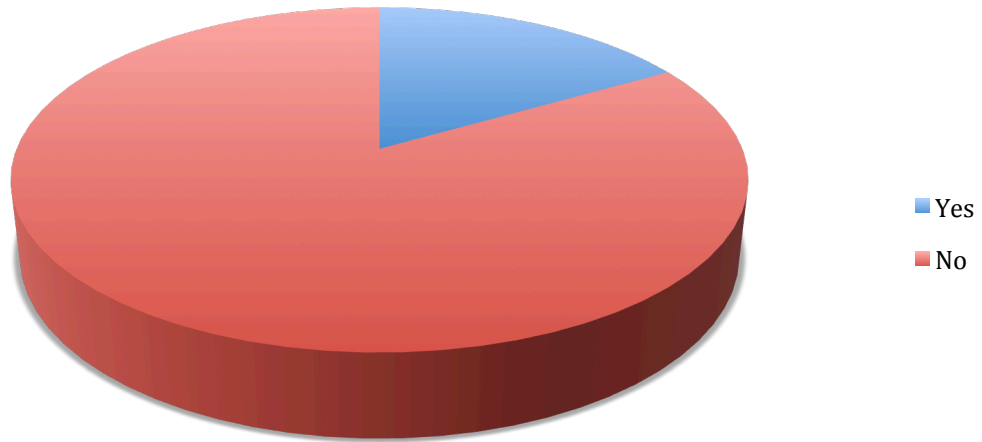
What is your favorite way to learn?



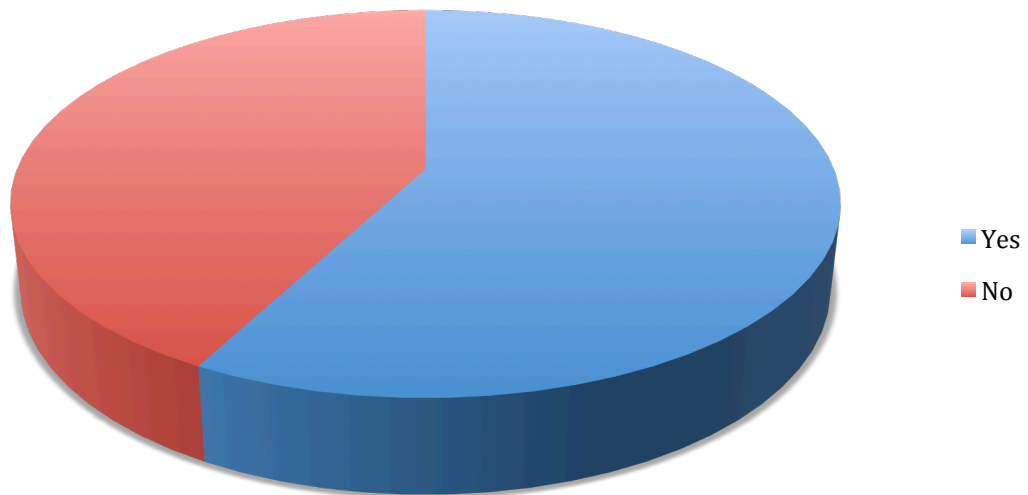
I have my own cell phone.



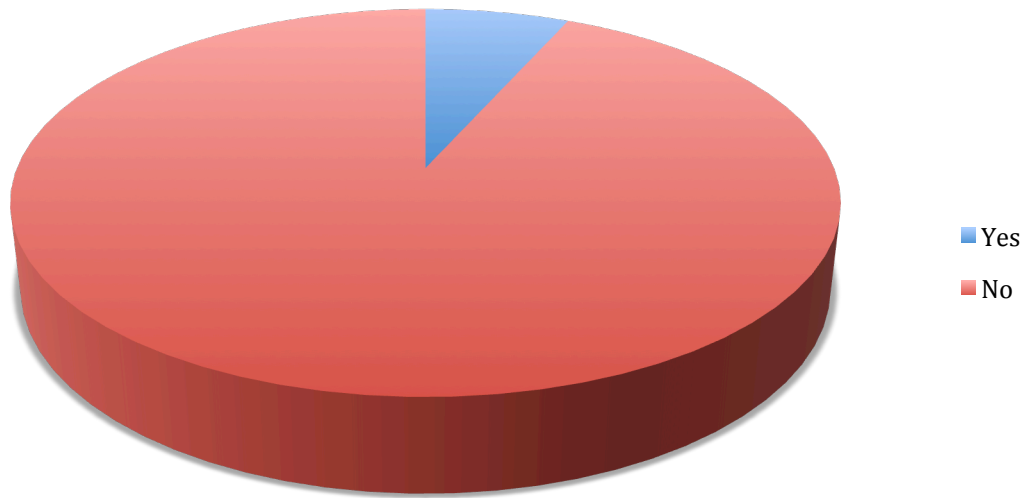
I share a cell phone with someone in my home.



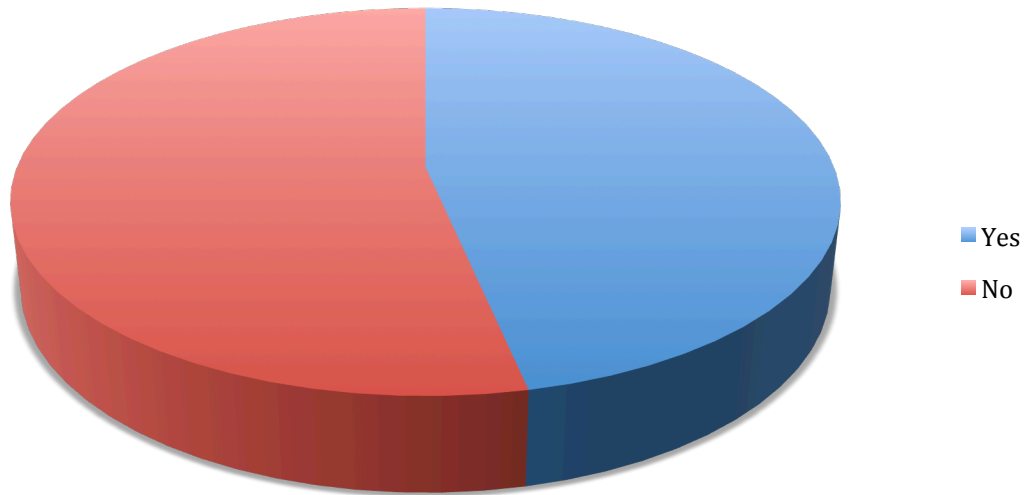
I have my own MP3/iPod.



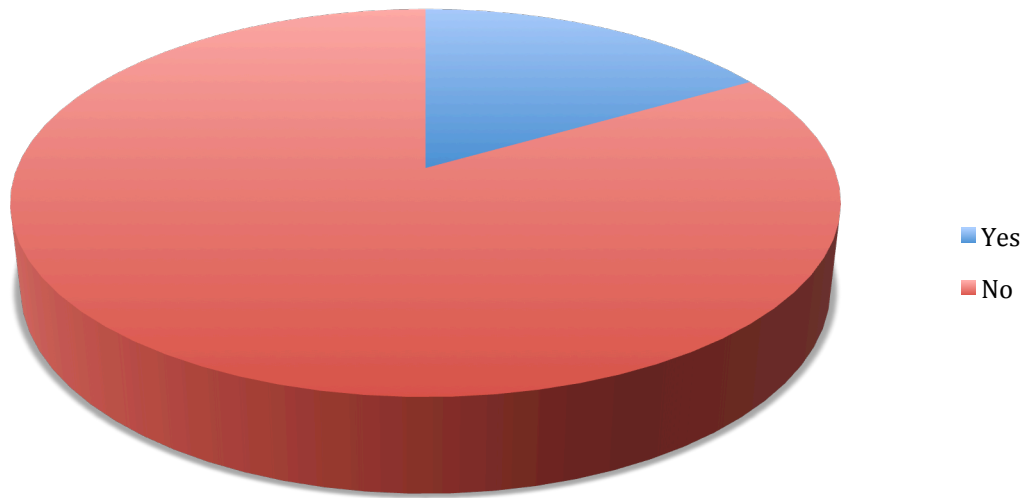
I share a MP3 Player/iPod.



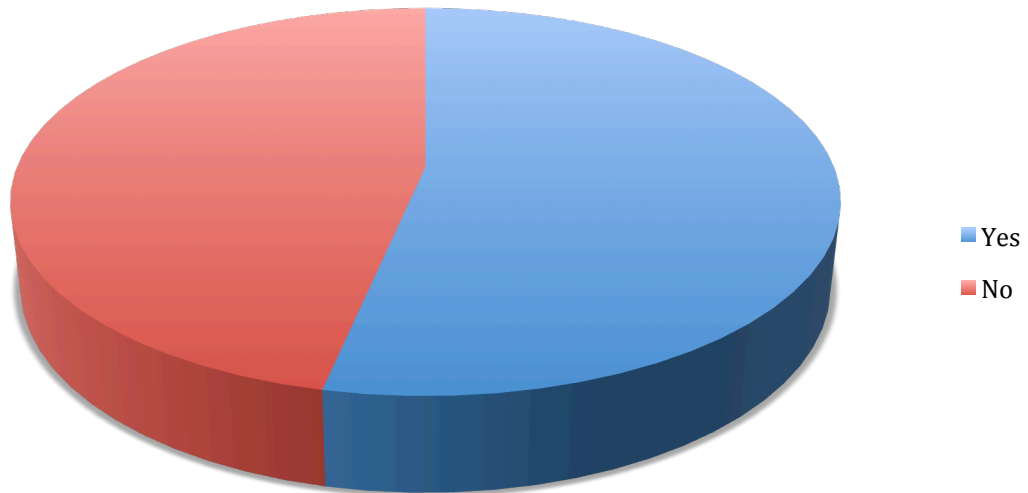
I have my own tablet/e-reader.



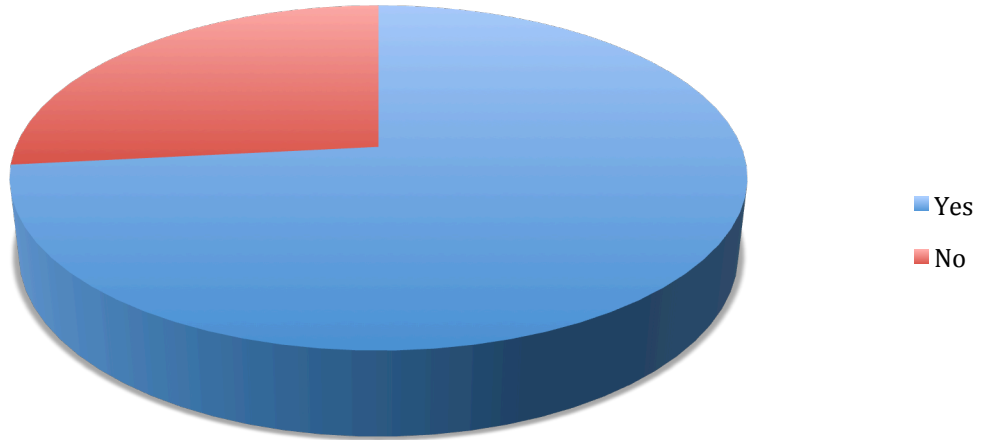
I share my own tablet/e-reader.



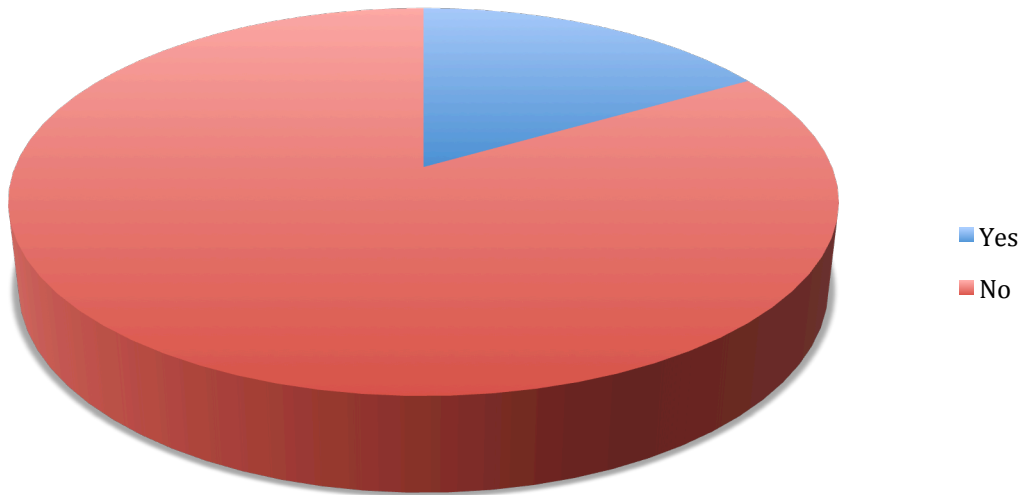
I have my own gaming system.



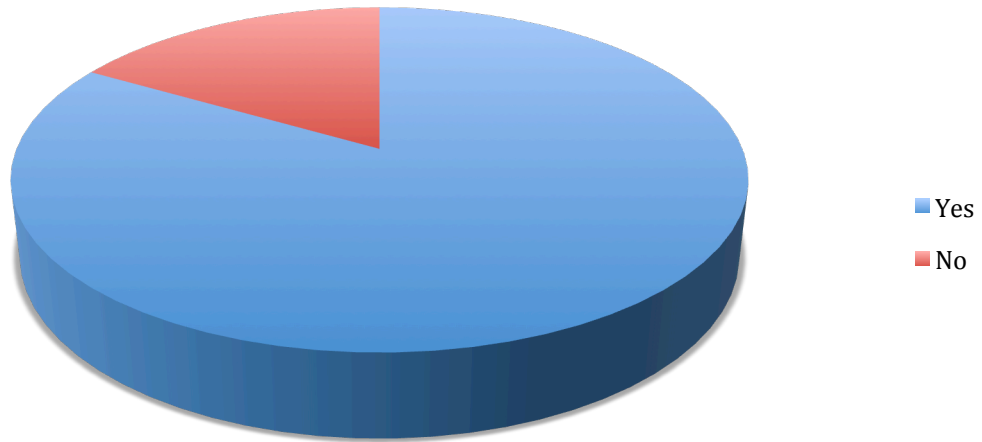
I share a gaming system with someone in my home.



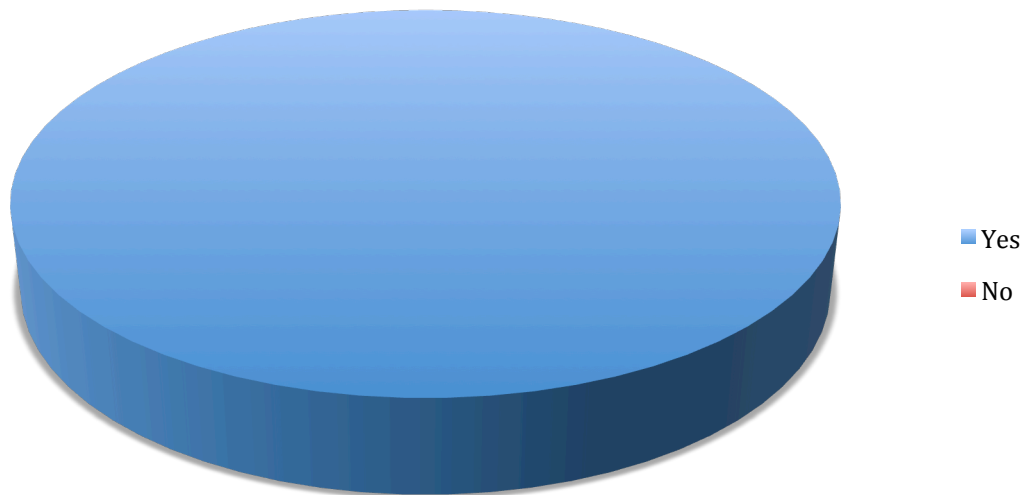
I have my own computer.



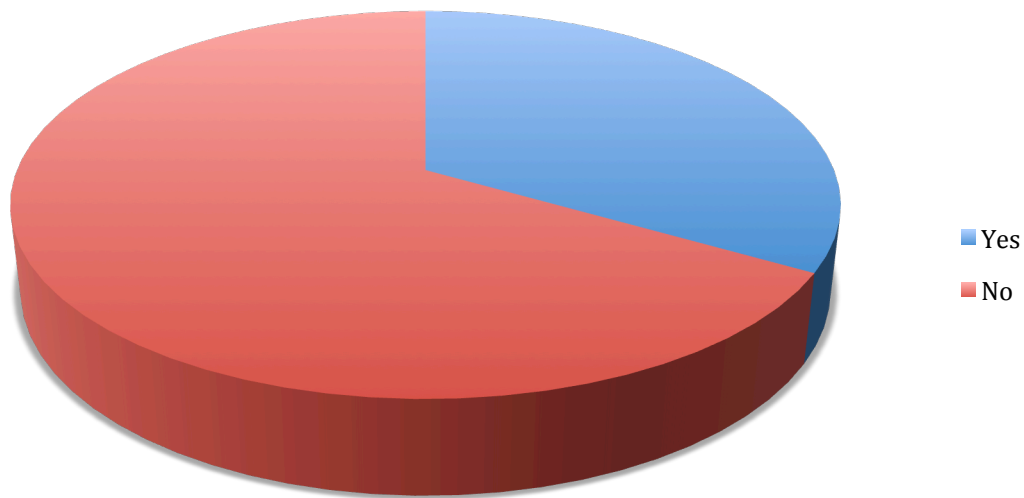
I share a computer with someone in my home.



I have internet access at home.



I use the internet on my phone.



Task Analysis:

Students will define: reflection, refraction, absorption, electromagnetic waves, convex, concave, prism and white light.

Students will understand the origins and connect it to inventions of light by reading about Thomas Edison.

Students will collect and record the data into a chart for presenting results to the class.

Students will investigate reflection and refraction through an experiment.

Student will create a Prezi to reflect what they have learned about light.

Context for Instruction:

I plan on using a power point to help the students define the terms as well as Bill Nye the Science Guy videos on light and color, which will be shown on my projector through my laptop. I will need water, a pie plate and penny to demonstrate refraction. I will need use of our grade level mobile lab for the students to create their Prezi presentations.