

**SunRidge School
Sixth Grade Physics
2021-2022**

Name _____

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About the Block

Sixth grade physics begins with an introduction to the scientific method focused on building skills in objective observation, and clearly describing these observations both verbally and in writing. Topics covered include sound, light, heat, magnetism, and electricity. Students begin each topic examining their individual experience with the subject, after which the class moves through a series of demonstrations of key concepts and principles.

The study of sound explores the sources of sound, how sound propagates through various media, and the concepts of vibration, frequency, amplitude, duration, tone, and timbre.

The study of light includes an exploration of the nature of darkness and light, the properties of light, and the fundamentals of reflection and refraction.

The study of heat includes an exploration of the sources and propagation of heat, and the effects of heat on matter.

The study of magnetism includes the sources and properties of magnetism, the compass, and the concepts of magnetic attraction and repulsion.

The study of electricity includes the sources and properties of static electricity, the relationship between electricity and magnetism, and the concepts of current, flow and charge.

1. Sound

Date	Topic	MLB Pages	Due	X
Mon, Oct 4	Silence and Listening, Types of Sounds	MLB Title Page	Fri, Oct 29	
		MLB 1&2. Types and Sources of Sound (<i>Two pages in one.</i>)	Tue, Oct 12	
Tues, Oct 5	Sources of Sound		Tue, Oct 12	
Wed, Oct 6	Propagation of Sound	MLB 3. Propagation of Sound	Tue, Oct 12	
Thur, Oct 7	Sound in Water			
Fri, Oct 8	Visible Sound			

2. Light

Date	Topic	MLB Pages	Due	X
<i>Mon, Oct 11</i>	<i>Holiday</i>			
Tues, Oct 12	Darkness and Light	MLB 4. Darkness and Light	Mon, Oct 18	
Wed, Oct 13	Radiometer	MLB 5. Radiometer	Mon, Oct 18	
Thur, Oct 14	What is Light?	MLB 6. What is Light?	Mon, Oct 18	
Fri, Oct 15	Visible Light	<i>Continue previous day</i>		

3. Heat

Date	Topic	MLB Pages	Due	X
Mon, Oct 18	Sources of Heat	MLB 7. Sources of Heat	Mon, Oct 25	
Tues, Oct 19	Expansion and Contraction	MLB 8. Heat and Matter	Mon, Oct 25	
Wed, Oct 20	Heat Conduction	MLB 9. How Heat Travels	Mon, Oct 25	
Thur, Oct 21	Heat Convection	<i>Continue previous day</i>		
Fri, Oct 22	Solar Oven	In-class: Build a Solar Oven	Fri, Oct 22	

4. Magnetism and Electricity

Date	Topic	MLB Pages	Due	X
Mon, Oct 25	Magnets and Compass	MLB 10. Magnetism	Fri, Oct, 29	
Tues, Oct 26	Static Electricity	MLB 11. Static Electricity	Fri, Oct, 29	
Wed, Oct 27	Electrical Forces	MLB 12. Electrical Forces	Fri, Oct, 29	
Thur, Oct 28	Block Review	In-class review	Fri, Oct, 29	
Fri, Oct 29	Block Final	In-class test	Fri, Oct, 29	

SunRidge School
Sixth Grade Physics
 Oct 4 – 29, 2021

Student

Participation	%	E	M	DP	LP	IE	NA
Arrives on time, and stays for the duration of class.							
Is prepared for class with required study materials.							
Participates collaboratively in class discussions and activities.							
Capacities							
Meets assignment requirements.							
Takes clear notes of essential ideas during presentations.							
Submits assignments by the due date.							
Proactively seeks help when needed.							
Understanding and Skills							
Physics: MLB Title Page							
Sound: MLB 1 & 2: Types and Sources of Sound (Combined page)							
Sound: MLB 3. Propagation of Sound							
Light: MLB 4. Darkness and Light							
Light: MLB 5. Radiometer							
Light: MLB 6. Shadows and Color							
Heat: MLB 7. Sources of Heat							
Heat: MLB 8. Heat and Matter							
Heat: MLB 9. How Heat Travels							
Heat: Demo. Building a Solar Oven							
Magnetism and Electricity: MLB 10. Magnetism							
Magnetism and Electricity: MLB 11. Static Electricity							
Magnetism and Electricity: MLB 12. Electrical Forces							
Physics: Block Review							
Physics: Block Final							

E	Exemplary	DP	Demonstrates Progress	IE	Insufficient Evidence
M	Grade Level Mastery	LP	Limited Evidence of Progress	NA	Not Assessed

Comments