Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Does Volume Affect Heat Dissipation?	Beginner	2	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time).
What is the Chance?	Beginner	7	Math	**Indicator Statement:** Determine the probability of one simple event comprised of equally likely outcomes **Objective(s):** ▪ Express the probability of an event as a fraction, a decimal, or a percent
Do You Know Your State Facts?	Beginner	12		

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Do You Have the Cents?	Beginner	17		
How Many Syllables Are the Most Frequent?	Beginner	22		
Which Holidays and Celebrations Do You Observe?	Beginner	27	Social Studies	**Indicator Statement:** Analyze how diverse cultures shape a pluralistic society **Objective(s):** ▪ Identify cultural groups within a modern world region

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Many Terms Did the Presidents Serve?	Beginner	32		
When Is Your Birthday?	Beginner	37		
How Are You Feeling?	Beginner	42	Math	**Indicator Statement:** Organize and display data

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
What's the Weather?	Beginner	47	Math	**Indicator Statement:** Organize and display data **Objective(s):** ▪ Organize and display data to make circle graphs
Temperature Over Time	Beginner	52	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time).
How Long is Your Shadow?	Beginner	57	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time).

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Do You Spend Your Day?	Beginner	62	Math	**Indicator Statement:** Organize and display data **Objective(s):** ▪ Organize and display data to make circle graphs
How Fast is it Growing?	Beginner	67	Science	**Indicator Statement:** Formulate and develop hypotheses that can be tested in well-designed investigations. **Objective(s):** ▪ Record and explain observations of physical phenomena that may be used to develop a hypothesis. ▪ Develop scientifically testable questions that can be answered through a well-designed investigation. ▪ Develop hypotheses that can be tested through a well-designed investigation.
Where Is it the Hottest Today?	Beginner	72	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** Design and construct tables, charts, databases, spreadsheets, and graphs to display data.

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
What's the Most Frequent Candy Color?	Beginner	77	Science	**Knowledge of Statistics:** Students will collect, organize, display, analyze, or interpret data to make decisions or predictions. **Indicator Statement:** Organize and display data
Relative Planet Sizes	Beginner	82	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
Investigating Daylight Hours in Your Town	Beginner	87	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Which Is the Biggest Dinosaur?	Beginner	92	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
How Many Steps?	Beginner	97		**Indicator Statement:** Describe a set of data **Objective(s):** ▪ Compare measures of central tendency (mean, median, mode) to determine which is most appropriate
What Are the Biggest Elevation Extremes?	Intermediate	2		

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Length of Daylight Across Hemispheres	Intermediate	7	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
How Does Our Class Compare?	Intermediate	12	Math	**Indicator Statement:** Organize and display data **Objective(s):** ▪ Organize and display data to make circle graphs
Creating Your Own Worksheets	Intermediate	17	Math	**Indicator Statement:** Analyze number relations and compute **Objective(s):** ▪ Add, subtract, multiply, and divide integers

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Rounding Random Numbers	Intermediate	22		
Which Pizza Is the Best Value?	Intermediate	27	Math	**Indicator Statement:** Estimate and apply measurement formulas **Objective(s):** ▪ Estimate and determine the area
Graphing Parts of Speech	Intermediate	32	Math	**Indicator Statement:** Organize and display data **Objective(s):** ▪ Organize and display data to make circle graphs

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Fast Can You Recover?	Intermediate	37	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time). ▪ Select the equipment appropriate for the quantity being measured.
Are Your Taste and Smell Aligned?	Intermediate	42	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time). ▪ Select the equipment appropriate for the quantity being measured.
Working With Polygons	Intermediate	47	Math	**Indicator Statement:** Estimate and apply measurement formulas **Objective(s):** ▪ Estimate and determine the area of quadrilaterals

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Identifying Geometric Figures	Intermediate	52		
What Angle Hits the Ball the Farthest?	Intermediate	57	Math	**Indicator Statement:** Locate points on a number line and in a coordinate graph **Objective(s):** ▪ Graph ordered pairs in a coordinate plane
Are Presidents as Mortal as You?	Intermediate	62	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Literate Are We?	Intermediate	67	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data.
Who Has the Most Coast?	Intermediate	72	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Use metric units with numbers when making and recording observations.
Extreme Continents	Intermediate	77	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data.

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Can a Day Be Longer than a Year?	Intermediate	82	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
Where's the Tide?	Intermediate	87	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
How Much Time Since…?	Intermediate	92		

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Can You Make the Change?	Intermediate	97		
What's Your Age and Weight on Pluto?	Challenging	2	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data.
How Accurately Can We Measure Volume?	Challenging	7	Science	**Indicator Statement:** Communicate findings from hands-on investigations and text resources. **Objective(s):** ▪ Communicate orally or in writing a description of an investigation that includes: ▪ The question investigated ▪ The results of the investigation ▪ The hypothesis made ▪ An explanation of the results using supporting evidence

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Tracking Your Weather	Challenging	12	Science	**Indicator Statement:** Analyze data to identify possible explanations for trends. **Objective(s):** ▪ Describe and compare trends in sets of data. ▪ Identify and describe possible relationships among sets of data.
The In-Out Box	Challenging	17	Math	**Indicator Statement:** Identify, describe, extend, and create linear patterns and functions **Objective(s):** ▪ Identify and extend an arithmetic sequence represented as a function table ▪ Identify and extend a geometric sequence ▪ Describe how a change in one variable in a linear function affects the other variable in a table of values
Did You Earn that Run?	Challenging	22	Math	**Indicator Statement:** Describe a set of data **Objective(s):** ▪ Compare measures of central tendency (mean, median, mode) to determine which is most appropriate

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Magic Squares	Challenging	27		
History of Minimum Wage	Challenging	32	Math	**Indicator Statement:** Analyze linear relationships **Objective(s):** ▪ Describe the rate of change of a linear relationship by a table of values and a graph
Currency Exchange Rates	Challenging	37		

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
How Can We Turn a Gallon into Liters?	Challenging	42	Math	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Use metric units with numbers when making and recording observations.
How Fast Are We Growing?	Challenging	47	Math	**Indicator Statement:** Analyze linear relationships **Objective(s):** ▪ Describe the rate of change of a linear relationship by a table of values and a graph
How Dense Is Your Stuff?	Challenging	52	Science	**Indicator Statement:** Describe and compare similarities and differences among objects and scientific concepts. **Objective(s):** ▪ Identify and describe similarities and differences among objects. ▪ Explain key ideas of scientific concepts. ▪ Identify and describe similarities and differences among related scientific concepts.

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
What's Your Reaction Time?	Challenging	57	Science	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data. ▪ Collect data using equipment, such as a centimeter ruler (length), spring scale (weight), balance (mass), Celsius thermometer (temperature), graduated cylinder (liquid volume), and stopwatch (elapsed time). ▪ Select the equipment appropriate for the quantity being measured.
Graphing Quadratic Equations Using the (X,Y) Scatter Chart	Challenging	62		
Charting Circles	Challenging	67	Math	**Indicator Statement:** Estimate and apply measurement formulas **Objective(s):** ▪ Estimate pi using physical models

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Working with Circles	Challenging	72	Math	**Indicator Statement:** Estimate and apply measurement formulas **Objective(s):** ▪ Estimate pi using physical models
What's Using the Electricity in Your House?	Challenging	77	Math	**Indicator Statement:** Organize and display data **Objective(s):** ▪ Organize and display data to make circle graphs
Graphing Linear Equations	Challenging	82	Math	**Indicator Statement:** Locate points on a number line and in a coordinate graph **Objective(s):** ▪ Graph linear equations with one operation in a coordinate plane

Lesson Name	Level	Page Number	Content Area Standard	Maryland 7th Grade Content Area Standards
Who's Using all the Electricity?	Challenging	87		
What's the Oldest Country?	Challenging	92		
What's the Most Expensive by the Pound?	Challenging	97	Math	**Indicator Statement:** Collect, organize, and accurately display data in ways others can verify using appropriate instruments. **Objective(s):** ▪ Design and construct tables, charts, databases, spreadsheets, and graphs to display data.