

STRAND	STANDARD	OBJECTIVES (What it looks like in the classroom) The learner will í	# OF DAYS NEEDE D FOR MASTE RY	DAT ES TAU GHT	DAT E ASSE SSED	ASSESSME NT TYPE (classroom, objective, subjective, project, etc.)	RESOURCES (Materials, web sites, auto- visual, print)	LEARNING ACTIVITIES
		The learner will understand why data is needed to help guide decision making.	2	Janu ary	-	Classroom	Textbook/Inter net	
		The learner will examine both good and poor ways to obtain data. We will look into various ways to collect data including from surveys, experiments, observational studies, etc.	5	Janu ary - Febr uary	Febr uary	Classroom	Textbook/Inter net	
		The learner will gain an understanding of bias and how the chances of it occurring can be minimized.	3	Janu ary	Janu ary	Classroom	Textbook/Inter net	
		The learner will understand variability in a sample and how it can be decreased.	2			Classroom	Textbook/Inter net	
		The learner will perform a small sample survey and write a brief summary of how that was done and the results. It should include any unanticipated events or results that took place in the process.	Comple ted along side normal classtim e	Febr uary	Febr uary	Project	Textbook/Inter net	

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		The learner will understand the basics of experimental design.	5	Febr uary	Febr ary		Textbook/Inter net	
		The learner will understand the benefits of experiments, and also why they cannot always be done.	5	Febr uary		Classroom	Textbook	
		The learner will explore the ethics of experiments to gain an understanding of why experiments cannot always be used to prove a cause and effect relationship.	3	Febr uary	Febr ary	Classroom	Textbook	
		The learner will explore the history of experiments and ethics from real world examples	2	Marc h	Marc h	Classroom	Textbook/Inter net	
		The learner will explore the complexities of measuring something. What variables need to be measured? What is the proper way to measure those variables?	4	Marc h	Marc h	Classroom	Textbook/Inter net	
		The learner will gain an understanding of reporting with rates or counts for effect.	2	Marc h	Marc h	Classroom	Textbook/Inter net	

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		The learner will work on recognizing numbers reported in a study as plausible or impossible. This is a continual objective, working toward recognizing numbers that do and do NOT make sense.	On going	On going	On going	Classroom	Textbook/Internet	
		The learner will use their data collection knowledge and organize their data into appropriate graphical representations (circle, line, bar, histograms, stemplots, box plots) of the data.	10	March	March	Classroom	Excel, Google Sheets, Calculator	
		The learner will begin to analyze data from the perspective of the 5-number summary, mean, and standard deviation)	5	April	April	Classroom	Textbook/Internet	
		The learner will understand the basic properties of the normal curve and standard scores.	5	April	April	Classroom	Textbook/Internet	
		The learner will gain an understanding of scatterplots, and relationships and/or lack of relationships between correlation and causation.	5	May	May	Classroom	Textbook/Internet	
		The learner will investigate the CPI and its relationship to discussions of monetary values from various time frames.	5	May	May	Classroom	Textbook/Internet	

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		The learner will investigate the concept of expected value.	Time permitti ng	Time perm itting	Time Perm itting	Classroom	Textbook/Inter net	