Winter Birds Curricular Connections - Grade 8

Subject Area	Curriculum Connections	Notes
Mathematics	D1.1 identify situations involving one-variable data and situations involving two-variable data, and explain when each type of data is needed D1.2 collect continuous data to answer questions of interest involving two variables, and organize the data sets as appropriate in a table of values D1.3 select from among a variety of graphs, including scatter plots, the type of graph best suited to represent various sets of data; display the data in the graphs with proper sources, titles, and labels, and appropriate scales; and justify their choice of graphs D1.4 create an infographic about a data set, representing the data in appropriate ways, including in tables and scatter plots, and incorporating any other relevant information that helps to tell a story about the data D1.5 use mathematical language, including the terms "strong", "weak", "none", "positive", and "negative", to describe the relationship between two variables for various data sets with and without outliers D1.6 analyse different sets of data presented in various ways, including in scatter plots and in misleading graphs, by asking and answering questions about the data, challenging preconceived notions, and drawing conclusions, then make convincing arguments and informed decisions	For the winter bird count, students will be submitting data regarding how many birds of different species were seen, how long they were searching for birds, and where they saw the birds. Lots of data analysis and graphing possibilities. - Selecting Appropriate graphs - Organizing Data - Creating infographics - Making meaningful conclusions from data presented in graphs and infographics
Language	Reading - read and demonstrate an understanding of a variety of literary, **graphic, and informational**	Using Informational Texts to profile various bird species (Writing - non-Fiction text features) Translating some of the data we gathered into infographics

	texts, using a range of strategies to construct meaning;	that make sense to various audiences (Media)
Geography	A2.3 analyse and construct maps as part of their investigations into the impact of natural events and/or human activities that change the physical environment, with a focus on investigating the spatial boundaries of the impact A2.4 interpret and analyse data and information relevant to their investigations, using various tools and spatial technologies A2.5 evaluate evidence and draw conclusions about the impact of natural events and/or human activities that change the physical environment	This is where ebird could be a useful tool. Ebird is a website that tracks where birds have been seen, and reveals migration patterns. If teachers are looking to combine data analysis with map reading, it's worth checking out.
Science		