Order-of-Magnitude Estimation Bird Speed (Level 1)

The Question

On average, how fast is a migratory bird moving?

Background

Many birds migrate south in the winter (in the northern hemisphere) and north in the summer. This requires a lot of flying! These birds of course aren't always moving, so what is the average speed of a bird over the course of a year, including moving and stopped time?

The Solution

Education Standards

This OoM Estimation problems meets the following standards in **bold**: *Next Generation Science Standards (NGSS)*:

- Physical Sciences
 - Matter & Its Interactions
 - Motion and Stability: Forces and Interactions
 - Energy
 - Waves and Their Applications in Technologies for Information Transfer
- Life Sciences
 - From Molecules to Organisms: Structures and Processes
 - Ecosystems: Interactions, Energy, and Dynamics
 - Heredity: Inheritance and Variation of Traits
 - Biological Evolution: Unity and Diversity
- Earth and Space Sciences
 - Earth's Place in the Universe
 - Earth's Systems
 - Earth and Human Activity
- Engineering, Technology, and Applications of Science
 - Engineering Design

Common Core Standards (CSS):

- Counting & Cardinality
- Operations & Algebraic Thinking
- Numbers & Operations in Base Ten
- Number & Operations Fractions
- Measurement & Data
- Geometry
- Ratios & Proportional Relationships
- The Number System
- Expressions & Equations
- Functions
- Statistics & Probability