

Ideas for High School Math Lesson Plans

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Math Science possible lessons

- Measure angles on various sled stanchion and height and length of the sled basket, and length of runners used for hauling weight, sturdiness, and lightweight flexible types. Determine center of gravity.
- Measure line lengths and compare for different trail types (twisty narrow trails with trees vs. open river miles)
- Study parasite life cycles and determine the most efficient method of control
- Sustainable numbers of sled dogs based on food availability (all subsistence, or mixed dry and subsistence fish) using ecology trophic dynamics.
- Figure speed by using a known length of trail and time taken to cover the trail.
- Determine body heat in doghouse with insulation, with just straw, no insulation and with both straw and insulation. Look at the calories saved in feeding the dog by insulating a house.
- Weigh dogs before and after running to determine hydration loss during training. Does this vary with temperature and with individual dogs?
- Compare conditioning programs for various forms of dog team use. Work, recreational, sprint, mid distance, and long distance racing. Use retired dog to show how to count respiration and heart rates.
- Use studies on dog DNA to determine breeds in village dogs to introduce genetics and DNA.