

Kate Patterson
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Biography: Kate Patterson grew up in Lander and attended the University of Wyoming where she completed a Bachelor's degree in Mathematics. She attended graduate school at MSU in Bozeman, MT where she researched mathematical biology (which really means they worked on making mathematical models to model biological systems). After graduating she worked in Auckland, New Zealand modeling salivary gland cells and the effects of cystic fibrosis. She returned to Fremont County because she loves the area and wanted to raise a family here. Kate has been teaching Mathematics at Central Wyoming College since 2012.



Workshop: *Fractal Dimension* - Students will discover the mathematical idea of "dimension" by looking at common geometrical objects, then will challenge this idea by considering interesting geometric objects called "fractals". Students will draw fractals, create their own fractals, and uncover interesting properties of fractals. Students will see fractals in nature and modern applications that are important in their everyday lives.