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Nature of Friction within System of Interleaved Sheets

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NATURE OF FRICTION WITHIN SYSTEM OF INTERLEAVED SHEETS

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In this experiment, sheets of paper were interleaved. The static friction within the system was measured by recording the force required to pull the sheets apart as the number of sheets, and the thickness of the sheets increased. This was done in order to find function of friction relative to number of surfaces and relative to mass. This experiment proves to bring a better understanding of why an enormous amount of force is required in order to pull many interleaved sheets apart. This information proves that, in fact, friction increases quadraticly, and not linearly, which is the most popular theory today.