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Effect of Magnetic Dipole Moment on Magnet Forces KEN TAYLOR¹, Lake Highlands High School, IAN CAMPBELL², MATTHEW MIROCHNA³, ROBBIE STEWART⁴, Lake Highlands High School — This paper discusses the effect of magnetic dipole moment on the “lifting power” of permanent magnets and on forces between magnets. To within the precision of observations, stacking identical magnets end-to-end appears to increase the dipole moment of a magnet in direct proportion to the material length of the magnet. This convenience facilitates a wide range of experiments that can be performed with magnets to study their fields and forces.

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