1086-VF-425   **Daniel J Heath*** (`heathdj@plu.edu`), Morken Center 258, Pacific Lutheran University, Tacoma, WA 98447. *Geometry Playground v. 1.4.*

We introduce *Geometry Playground v. 1.4* (GP), free dynamic geometry software for multiple geometries. Notably, GP allows straightedge and compass constructions in Euclidean, Manhattan, spherical, projective, and hyperbolic geometries, as well as limited constructions in toroidal and conical geometries. This allows GP to be used for discovery activities in classes ranging from Euclidean and non-Euclidean geometry to trigonometry and topology. (Received August 31, 2012)