

1077-O1-1518 **Allan Struthers*** (struther@mtu.edu). *Loaded Dreidels*. Preliminary report.

Coins and dice provide natural probability distributions which students assume (correctly) to be defined by their symmetry. In contrast spinners (for example the four-sided Dreidel) must be crafted carefully to be close to fair. Most cheap Dreidels are biased with each Dreidel having a distinct clockwise and counter-clockwise spin probability distribution. As a result, they are useful for numerous classroom activities. Activities including estimating the probability distribution, estimating win/duration probabilities for the traditional childrens game, and computing win/duration distributions will be discussed. (Received September 20, 2011)