Several Christian school associations and many Christian schools identify developing a biblical worldview in their students as an important component of their organizational mission, yet few report on their level of success. This research project used the definition of worldview as derived by James W. Sire (2004) as the basis for a three-dimensional conception of worldview. The dimensions are propositional, behavioral, and heart orientation. Based on that definition, and following a review of the conceptual literature and quantitative research into worldview, the researcher developed a new instrument, the 3-Dimensional Worldview Survey, which attempts to measure worldview along all three dimensions. The 76-item instrument has a subscale for each dimension. The validity of the instrument was evaluated by a review of a panel of 11 experts in worldview, and the internal reliability of the instrument was evaluated by administering the instrument to a convenience sample of 52 high school students at a Christian school in Minnesota. Cronbach’s alpha for the pilot study was .919 for the complete instrument. Following these two studies, the instrument was revised and additional suggestions for further testing provided for future research.