

Excel-Based Stereograms

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A *stereogram* is the juxtaposition of two central projections of a three-dimensional (3D) object — or of several 3D objects — from two separate centres of projection that are 7 cm apart (approximate distance between the eyes of an adult). By viewing the stereogram through a pair of glasses where each eye perceives only the image intended for it, you can create an effect of depth or virtual reality.

Students divide into teams of two to design and digitize one or more 3D objects, and use Excel to calculate their 2D central projections from which they will obtain perspective drawings for each eye.