

The Development and Evaluation of an Individualised Learning Tool for Mathematics students with Intellectual Disability: IMPELS

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IMPELS is an Individualised Mathematics Planning and Evaluation of Learning Tool for Students with Intellectual Disability. IMPELS was evaluated against 3 number sense tools and subjected to standard validity and reliability assessments. Results obtained indicated that IMPELS correlated strongly with the tools, ranging from 0.70 to 0.91 and 0.45 to 0.70 for Pearson and Spearman's Rho correlation coefficients respectively. Cronbach's alpha and Split-Half Reliability (KR-20) was 0.96. IMPELS is useful for the collection of baseline data to inform the development of individual education plans (IEPs) and for monitoring the progress of learning of individual students.