

Math-in-CTE Curriculum Map: Information Technology

CTE Course/Unit	CTE Concepts	Math Concepts	Middle School Common Core Math Standards	High School Common Core Math Standards
Excel	Payroll; Sales; Property Tax; Stats; Charting; Graphing	Percent; Multiply; Add and subtract; Ratios; Average; Sampling/survey; Conversion decimals to fractions; Mean, median, mode; Variance, standard deviation	6.NS.2; 6.NS.3; 7.NS.1; 7.EE.3; 6.RP.1; 6.RP.2; 6.RP.3; 7.RP.1; 7.RP.2; 7.RP.3; 6.RP.2; 6.RP.3; 7.EE.2; 6.NS.1; 6.EE.2; 7.NS.1; 7.NS.3; 6.NS.2; 6.NS.3; 6.NS.5; 7.NS.1; 7.NS.2; 7.NS.3; 6.SP.1; 6.SP.2; 7.SP.2	A.APR.1; A.APR.7; N.RN.3; N.Q.1; G.MG.3; S.ID.1; S.ID.2; S.ID.4; S.IC.6
Word	Tables; Document setup; Documents (newsletters, papers, brochures)	Columns and rows; Arrays; Matrices; Decimals and fractions; Proportion; Scale; Ruler; Ratio	6.NS.2; 6.NS.3; 7.NS.1; 7.EE.3; 6.NS.2; 6.NS.3; 6.NS.5; 7.NS.1; 7.NS.2; 7.NS.3; 6.NS.1; 6.EE.2; 7.NS.1;	A.APR.1; A.APR.7; N.RN.3; N.Q.1; G.MG.3

			7.NS.2; 6.RP.1; 6.RP.2; 6.RP.3; 7.RP.1; 7.RP.2; 7.RP.3	
PowerPoint	Keynotes; Transitions; Animation; Actions	Columns and row; Arrays; Matrices; Decimals and fractions; Proportion; Scale; Ruler; Ratio/Rates; Time/Order	6.NS.2; 6.NS.3; 7.NS.1; 7.EE.3; 6.NS.2; 6.NS.3; 6.NS.5; 7.NS.1; 7.NS.2; 7.NS.3; 6.NS.1; 6.EE.2; 7.NS.1; 7.NS.2; 6.RP.1; 6.RP.2; 6.RP.3; 7.RP.1; 7.RP.2; 7.RP.3	A.APR.1; A.APR.7; N.RN.3; N.Q.1; G.MG.3
Photoshop	Resolution; Rate; Photo editing; Resizing an image	Ratio; Proportion; Scale; Equivalent fractions	6.RP.1; 6.RP.2; 6.RP.3; 7.RP.1; 7.RP.2; 7.RP.3; 7.EE.3	G.MG.3
Basic html	Flash; Writing html; Linking html	Functions; Measurement; Scale; Tables	6.RP.1; 6.RP.2; 6.RP.3; 7.RP.1; 7.RP.2; 7.RP.3; 7.EE.3	G.MG.3

Access	Computed fields; Inventory; Sales; Contracts; Queries	Database; Multiply; Add and subtract; Time savings; If, then; Greater than/less than	6.NS.2; 6.NS.3; 7.NS.1; 7.EE.3	A.APR.1; A.APR.7; N.RN.3; N.Q.1; S.CP.1
--------	---	---	---	--