

## Goodheart-Willcox Publisher

18604 West Creek Drive • Tinley Park, IL 60477-6243

 Web
 www.g-w.com

 Orders
 800.323.0440

 Phone
 708.687.5000

 Fax
 708.687.5068

## Goodheart-Willcox Publisher Correlation of Exploring Drafting ©2018 to North Carolina Department of Education Course: NCCTE IC63 Drafting III - Architectural (Grades 9–12)



Stand	lards	Correlating Text Pages		
NCCTE.2020.IC63 - Drafting III - Architectural				
NCCTE.2020.IC63.01.00	<b>Understand Foundation Design, Calculations and Co</b>	onstruction.		
NCCTE.2020.IC63.01.01	Understand terms and definitions relating to foundation design, calculations and construction	on. 513-514, 524		
NCCTE.2020.IC63.01.02	Understand use of footings, foundation walls, girders, piers, ventilation, and slab floor/foundations.	513-514, 524		
NCCTE.2020.IC63.02.00 Apply Procedures to Create Basic Electrical Design Concepts.				
NCCTE.2020.IC63.02.01	Apply terms and symbols used to indicate electrical fixtures in a residential design.	506-508		
NCCTE.2020.IC63.02.02	Apply the rules and standards for electrical fixt placement.	sure 500-508		
NCCTE.2020.IC63.02.03	Apply the rules and standards for electrical fixt placement and create an electrical/lighting pla using 3D CAD software, such as Revit Architecture.			
NCCTE.2020.IC63.03.00 Apply Procedures to Create Stair/Railing Designs for Construction.				
NCCTE.2020.IC63.03.01	Apply terms and definitions relating to stair design and construction.	516-517		
NCCTE.2020.IC63.03.02	Apply the parts and standards used to constru- various stair system and types (Straight, Curve with landings and turns).			
NCCTE.2020.IC63.03.03	Apply the calculations for rise, run, total rise, total run, and floor cutout.	516-517		
NCCTE.2020.IC63.03.04	Apply typical railing design and construction for stairs, landings and decks.	or 516-517		
NCCTE.2020.IC63.03.05	Apply accepted procedures to draw plans for s construction using 3D CAD software, such as R Architecture.			
NCCTE.2020.IC63.04.00 Apply Procedures to Create Advanced Kitchen and Bath Details.				
NCCTE.2020.IC63.04.01	Apply terms, concepts and elements related to kitchen and bath details and design.	513-535		
NCCTE.2020.IC63.04.02	Apply plans for kitchen cabinet drawings, standard sizes and configurations.	513-535		



## Goodheart-Willcox Publisher

18604 West Creek Drive • Tinley Park, IL 60477-6243

 Web
 www.g-w.com

 Orders
 800.323.0440

 Phone
 708.687.5000

 Fax
 708.687.5068



Stand	ards Corr	elating Text Pages		
NCCTE.2020.IC63.04.03	Apply procedures to draw enlarged detailed plans and interior elevations for kitchens and baths using 3D CAD software, such as Revit Architecture.	142-178		
NCCTE.2020.IC63.05.00 Apply Procedures to Create Multi-level Residential Floor Plans.				
NCCTE.2020.IC63.05.01	Understand terms, definitions and accepted principles related to 2-story or multi-level residential space planning.	513-535		
NCCTE.2020.IC63.05.02	Understand residential door and window types (review of Level II Arch).	513-535		
NCCTE.2020.IC63.05.03	Understand floor plan symbols for doors, windows and room identification.	513-535		
NCCTE.2020.IC63.05.04	Understand the steps in drawing, dimensioning, and annotating a 2 story or multi-level floor plan.	513-535		
NCCTE.2020.IC63.05.05	Apply procedures to design, draw and annotate a 2 story or multi-level residential floor plan, including foundation plan using 3D CAD, BIM software.	513-535		
NCCTE.2020.IC63.06.00	Apply procedures to create a Site Development Plan.			
NCCTE.2020.IC63.06.01	Apply terms related to site development.	446-447, 521		
NCCTE.2020.IC63.06.02	Apply factors to be considered when developing a site for residential construction.	446-447, 513-535		
NCCTE.2020.IC63.06.03	Apply the lines, symbols, and features found on site plans.	513-515		
NCCTE.2020.IC63.06.04	Apply how to develop a site plan drawing.	446-447, 513-535		
NCCTE.2020.IC63.06.05	Apply accepted procedures to draw a site plan for a residential structure using 3D CAD software, such as Revit Architecture.	142-178		
NCCTE.2020.IC63.07.00 Apply Procedures and Construction Techniques to Create a Small Commercial Building				
	Design.			
NCCTE.2020.IC63.07.01	Apply various types of small commercial design projects.	513-535		
NCCTE.2020.IC63.07.02	Apply the different construction practices from residential to commercial; metal studs vs. wood construction, steel beams.	513-535		
NCCTE.2020.IC63.07.03	Apply commercial reflected ceiling plans, including lighting layout, electrical and fire protection symbols.	506-508		
NCCTE.2020.IC63.07.04	Apply Grid and column design and layout, labeling.	513-535		



## Goodheart-Willcox Publisher

18604 West Creek Drive • Tinley Park, IL 60477-6243

 Web
 www.g-w.com

 Orders
 800.323.0440

 Phone
 708.687.5000

 Fax
 708.687.5068



Standa	rrds Co	Correlating Text Pages		
NCCTE.2020.IC63.07.05	Apply multi-story stair design for commercial buildings.	516-517		
NCCTE.2020.IC63.07.06	Apply procedures to draw a small commercial building using 3D CAD software, such as Revit Architecture.	142-178		
NCCTE.2020.IC63.08.00 Apply Procedures to Create Rendering and Walkthroughs.				
NCCTE.2020.IC63.08.01	Apply the definition, purpose and techniques for a 3D rendering of a building.	142-178		
NCCTE.2020.IC63.08.02	Apply interior lighting and exterior solar effects on a building design.	142-178		
NCCTE.2020.IC63.08.03	Apply how camera angles affect perspective views of a building, interior and exterior.	142-178		
NCCTE.2020.IC63.08.04	Apply 3D building walkthroughs.	142-178		
NCCTE.2020.IC63.08.05	Apply CAD techniques to create a 3D rendering of an architectural model using 3D CAD software, such as Revit Architecture.	142-178, 560		