



Figure 3.13. Planning a Playground: Expert Column

	Novice	Apprentice	Practitioner	Expert
Calculations			accurately determines: <ul style="list-style-type: none"> ▪ length of schoolyard ▪ width of schoolyard ▪ perimeter of schoolyard ▪ area of schoolyard 	all of <i>Practitioner</i> plus explains the relationship between area and perimeter
Playground Diagram			uses graph paper to chart: <ul style="list-style-type: none"> ▪ perimeter and area of schoolyard ▪ perimeter, area, and placement of sports fields ▪ perimeter, area, and placement of basketball court ▪ dimensions and placement of equipment 	all of <i>Practitioner</i> plus includes key for scale
Equipment Data			includes: <ul style="list-style-type: none"> ▪ survey questions ▪ survey of 50 students ▪ data displayed in bar graph ▪ graph labels and key ▪ predictions made for entire student body based on sample polled 	all of <i>Practitioner</i> plus percentages are displayed for each category
Budget			accurately determines cost of playground equipment	all of <i>Practitioner</i> plus includes state tax in total cost
Written Proposal			<ul style="list-style-type: none"> ▪ includes explanation of design ▪ supports design with references to calculations and data ▪ builds an argument with several points and supporting statements for each 	all of <i>Practitioner</i> plus uses calculations to argue against a different proposal

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