

## K'NEX RUBRIC

<b>OUTCOME</b>	<b>Unacceptable 0</b>	<b>Not yet acceptable 1</b>	<b>Acceptable 2</b>	<b>Exemplary 3</b>	<b>Sub Totals</b>	<b>TOTALS</b>
Students use effective sketching techniques to communicate exploded assembly of toy	No sketches done	Sketches poor quality unable to identify specific pieces	Sketches clear but not numbered in order of assembly	Sketches clearly identify all pieces and are numbered in order of assembly		
CAD drawing produced of exploded assembly of toy	CAD drawings not done	CAD drawings completed properly but lack assembly steps	CAD drawings completed, steps identified, poor chosen views to identify parts	CAD drawings completed with all steps clearly shown and chosen views are easily understood		
Container to hold toy is produced without unnecessary void space	Container not completed	Container completed, holds toy, but much too big for the toy and easily falls open when dropped from 5'	Container completed, holds toy, but much too big for the toy and stays closed when dropped from 5'	Container completed, holds toy, very little space left in the box for the toy and stays closed when dropped from 5'		
Graphic suitable for attracting targeted age group is placed on box	No graphic or unable to read graphic presented	Graphic present but poor quality of color and lines	Graphic present, highly visible, not attractive to targeted audience	Graphic present, highly visible, attractive to targeted audience		
Toy can be easily assembled by outside personnel other than design group	Outside group can not follow assembly instructions	Outside group struggles to assemble toy following exploded directions	Outside group assembles toy following exploded directions	Outside group easily assembles toy following exploded directions with no re-doing or corrections		
Group worked as a team to develop all aspects of product design	Team worked as individuals	Group worked intermittently as a team	Team worked, made decisions as a team	Group worked, made decisions and modifications unanimously as a team		
Safety and clean-up guidelines followed	Wasted materials no attempt to clean-up	Improperly used tools and poor clean-up	Tools used & clean-up done intermittently	Tools used & clean-up done well		