

Below are the Connecticut Standards of Learning in Math, Technology, Social Studies, and Science and arranged by competency area and Grade. The Standards are checked (√) to identify the extent to which TRAC PAC 2 modules relate to the Connecticut Standards.

# Grade 7

### MATH - Grade 7: Numerical and Proportional Reasoning

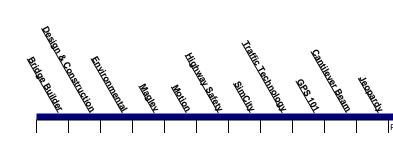
	I - Grau	10 11 11			Topon						
Compu	itation wi	th positi	ve and n	egative r	umbers	may be i	modeled	in the c	ontext of	increasi	ng and decreasing value or changes in measurements.
√	√		√				√	√			Use number theory concepts (primes, factors, multiples, divisibility) to estimate and solve problems.
√	√		√				√	√			Use models and number lines to solve problems that involve integers, powers and roots.
√	V		√				√	√			Use the order of operations to compute and solve a variety of multi-step problems, including those with parentheses and exponents.
√	√		√				√	√			Solve problems involving absolute value.
√	√		V				√	√			Create word problems, write number sentences and matching equations and explain and solve a variety of multi-step word problems.
Very la	rge and y	/erv sma	ill numbe	ers may h	e written	usina s	cientific	notation	, which i	s based	on powers of ten.
			<b>J</b>				<b>v</b>				Use powers of ten and negative exponents to write decimal fractions.
J J	V		V				J				Use powers of ten and positive and negative exponents to express and compare magnitude of very large and very small numbers and connect to scientific notation.
- V	V V		V				v				Use the rules for exponents to find the result of multiplication and division with powers of ten.
- V	- V		- V				J				Use and explain estimation strategies that involve powers of ten and scientific notation.
- V	- V		- V				Ĵ				Develop, describe and use a variety of methods to estimate and calculate with very large numbers.
	-	uree me	-	d to dom	onstrata	the ency	vore to r	roblomo	involvin	a divisia	n with fractions.
woders √		ures ma	y be use √	a to dem	onstrate	the answ	wers to p			g aivisio	Identify equivalent division problems with models, pictures and in written fraction and decimal forms and use that information to estimate reasonable answers.
			-					V			
Percen	ts can be	e usea to	таке со	ompariso	ns betwe	en grou	ps of un	equal si	ze becau	se each g	group is based on a ratio of parts per hundred. Use number patterns and the distributive property to estimate and find percents, including percents greater then 100%.
	I	<u>і — і</u>	ļ			<u> </u>		L			
Fractio	ns, decin	nals and	percent	s are equ	ivalent w	ays to r	epresent	real-wo	rld situat	ions and	the choice of which symbolic form to use may make it easier to describe a relationship or solve a problem.
											Choose and use a variety of linear, area, and ratio models and diagrams to estimate, round, locate, order, compare and identify equivalent forms of fractions, decimals, mixed numbers, improper fractions, ratios and percents.
											Use models, diagrams, number patterns and common factors to rewrite a rational number in its equivalent fraction, decimal, ratio and percent forms, as powers of ten and in
											scientific notation.
											Explore, identify and classify fractions as terminating or repeating decimals.
											Use equivalent forms and proportions to find what percent one amount is of another amount.
											Estimate and use the calculator to do computations involving fractions, decimals, mixed numbers, improper fractions, ratios, proportions and percents.
											Use the distributive property to estimate, multiply and divide mixed numbers and decimals.
											Use the associative, commutative, distributive properties, identities and inverses to simplify computations with fractions and decimals and to write and solve multi-step problems.
											Select and describe strategies for estimating reasonable answers to computations with fractions, mixed numbers, decimals, and percents.
											Determine when a situation involving fractions, decimals and percents requires an exact answer, or when an estimate is sufficient.
											Use proportions to identify equivalent ratios and solve practical problems involving rates, scale factors, mixtures and percents.
											Use estimation to predict outcomes and determine reasonableness of results, and describe situations where it is important to recognize whether the estimate is an over- or underestimate.
											Explore alternative ways to express decimal fractions in expanded form.
MATH	- Grad	e 7: Al	gebrai	r Reas	oning		1				
	aic equat		-			ing tool	•				
			y be use	uaspiou √		ing tool	s.		1		Solve problems involving simple linear equations using concrete, verbal, graphical and tabular representations.
-	- V	v √	V	v √	v √						Recognize and generate equivalent forms for simple algebraic expressions and equations.
A consi	-	-				(clone) u	ull viold	, otroigh	t line ar	nh (lino)	ar), but if the rate of change varies, then the graph is not a line (nonlinear).
A cons	tant rate	or chang	je betwe	en two va	ariables (		/iii yield :	a straigr	it line gra	ipn (iinea	use graphs, tables and equations to represent and analyze changes in linear and nonlinear relationships.
		<u> </u>			<u> </u>	<b>√</b>		<u> </u>		<u> </u>	Identify the independent and dependent variables in a given situation.
				<u> </u>					<u> </u>		Recognize that the constant rate of change of a function is the slope.
		<u> </u>									
Some r	elationsh	hips are o	continuo	us, other	's are no	t continu √	ious (dis	crete) ai	nd the gr	aphs of o	tata points should reflect this. Identify how change in the values of data patterns in tables affects changes in the corresponding equations and graphs of linear functions.
The val	lues of sl	ope and	of interc	epts (the	points v	where a d	graph int	ersects	each axis	s) facilita	te writing equations and graphing linear relationships.
		1		1	1	<b>√</b>				(	Identify points on the graph where the x or y values are equal to zero as representing the x- or y-intercepts, respectively.
MATH	- Grad	le 7: G	eometr	v & Me	asurem		•		•	•	
				-			prisms o	an be u	sed to so	lve geor	netric and measurement problems.
		1			-		1			-	Estimate and develop formulas to find the surface area and volume of prisms and cylinders.
7	V	1	1	1			1		1		Develop and use estimation and measurement strategies to solve problems involving the areas of irregular polygons and volumes of irregular solids.
J.	v	<b>√</b>	<b>√</b>	1			1		1		Explore the relationships among angles, sides, perimeters and areas of congruent and similar polygons using models and diagrams on the rectangular coordinate plane.
-	-	+ •	+ •	<u> </u>			1		+		Understand the relationship of a cubic centimeter and a milliliter. Explore ways to determine the volume of irregular solids using the relationship.
		1	1	1	1	1	1	1	1	1	

## Grade 7

Design & V	Contastruction	- nuitontunental	Maatlet	History	- mutat satety	Traffic. Simulat	Technology	Canter Greature	tilester Bream	teopartity	Below are the Connecticut Standards of Learning in Math, Technology, Social Studies, and Science and arranged by competency area and Grade. The Standards are checked (1) to identify the extent to which TRAC PAC 2 modules relate to the Connecticut Standards.
			ons influe	ence the	number	of flips a	nd turns	s needed	to returr	n a shap	e to its original orientation.
√_	V										Explore constructing various angles and polygons using a compass and straightedge.
<u></u>	<u></u>			L.,			Ļ	<u> </u>			Examine and describe the effect of transformations on polygons with line and/or rotational symmetry.
Base pi √	ians (foc	tprints),	ortnogor	hai views	(trom tr	he front, s	side and	top) and	Isometr	ic drawi	ngs (on a triangle-based grid) are ways to represent three-dimensional objects in two-dimensional diagrams. Draw and interpret nets, cross-sections and front, side, top views of various solids.
-	ms invol	ving mea	suremen	it can be	solved t	hrough t	he use o	of approp	riate too	ls. techr	Jordan and intelligion ready process operations and north, block, top views of various bolide.
√	√		√	√	√	v	√	√	√		Choose appropriate units and use standard and nonstandard referents as benchmarks when estimating length, area, volume, wt, mass, time, temperature and angle.
MATH	I - Grad	de 7: W	orking	with D	ata: Pr	obabili	ty and	Statisti	cs		
Selectir	ng the a	opropriat	e visual i	represen	tation of	f data is k	based or	n the kind	l of data	collecte	d and the purpose for its use.
V	V	V	V								Make conjectures, design surveys and samplings. Select appropriate representations for the data, including histograms and scatter plots. Organize and analyze the data and defend the analysis.
											Find, use and interpret measures of central tendency and spread including mode, median, mean, range and outliers. Decide which measure(s) may be most appropriate for a given situation.
											Compare two sets of data based on their distributions and measures of central tendency.
Recogn	nizing wl	nether or	der matte	ers may	be impor	rtant whe	n detern	nining po	ssible o	utcomes	
	1	I	Ι	ļ		L	<u> </u>				Distinguish between combinations and permutations as ways to predict possible outcomes.
Experin	nental p	robabiliti	es are de	etermine	d by actu	ual samp	ling and	use of st	atistics.	Theoret	ical probabilities are determined through identifying all possible outcomes under stated conditions.
√	√										Identify the two ways of obtaining probabilities-by gathering data from experiments (experimental probability) and by analyzing the possible and likely outcomes (theoretical probability).
											Conduct experiments and compare experimental to theoretical probabilities.
SCIEN	NCE - C	Frade 7	: Core	Scienti	fic Inq	uiry, Lit	teracy	and Nu	merac	у	
Energy	provide	s the abi	lity to do	work an	d it can	exist in n	nany for	ms.			_
			_ √_				_ √_				Explain the relationship between force, distance and work, and use the relationship (W=F x D) to calculate work done in lifting heavy objects.
			<u>√</u>				<b>√</b>				Explain how simple machines such as inclined planes, pulleys and levers are used to create mechanical advantage.
Many o	rganism	s includ	ing hum:	ans have	snecial	lized ora:	v svster	ms that i	nteract w	ith each	Describe how different types of stored (potential) energy can be used to make objects move. other to maintain dynamic internal balance.
nany o	gamon	3, meiuu		113, 114	special	lizeu orga	an syster		iteract v		Describe the basic structures of an animal cell, including nucleus, cytoplasm, mitochondria and cell membrane, and how they function to support life.
											Describe the structures of the human digestive, respiratory, and circulatory systems, and explain how they function to bring oxygen and nutrients to the cells and expel waste
											materials.
											Explain how the human muscular/skeletal system supports the body and allows movement.
Landfor	rms are	the resul	t of the ir	nteractio	n of con	structive	and des	structive	forces o	ver time.	
<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u> </u>		<u> </u>		L	Describe how folded and faulted rock layers provide evidence of the gradual up and down motion of the Earth's crust.
<u></u>	_ √	<b>√</b>									Explain how glaciation, weathering and erosion create and shape valleys and floodplains.
√ Techno			improve	food pr	oduction	and pro	sorvatio	n thue in	nnroving		Explain how the boundaries of tectonic plates can be inferred from the location of earthquakes and volcanoes. Ity to meet the nutritional needs of growing populations.
i eciiii0	nogy all	-ws us to		s ioou pr	Junction	i anu pre		n, uius li	nproving		Describe how freezing, dehydration, pickling and irradiation prevent food spoilage caused by bacteria.
ТЕСН	ED - C	rades	5-8 - Ec	conomi	cs		L	·		L	
						logy and	the eco	nomy, an	d recoa	nize that	link as the force behind societal emergence and evolution.
V		V	√		√	√	√	, <b>,</b> ,		√ v	Describe how societies are organized to produce and distribute goods and services in a structured manner.
√	√	V	V	√	√	√	√	√	√		Describe how society uses resources and distributes its goods and services.
	√	V			√	<b>√</b>	√				Describe how a business produces profit.
		_ √_			<b>√</b>	√	√				Describe the major economic and political systems in relation to techno-logical activity.
	<b> </b> ,	<b>I</b> √	ļ		<b>√</b>	<b>√</b>	<b>√</b>	ļ		ļ	Identify three types of businesses.
V	V	/			v √	v √	√   √				Describe free enterprise.
	-	v √				v √	v √				Analyze a product for its ability to satisfy consumer demands. Develop skills in making wise consumer decisions.
		J			J.	J	v √			<u> </u>	Develop skills in making wise consumer decisions. Discuss the global market/ economy and understand its effects on the United States.
TECH	ED - 0	rades	5-8 - Te	chnolo	ogical	mpact	- <b>-</b>	J	l	·	
					<u> </u>		on the so	cial, cult	ural and	environ	mental aspects of their lives.
√	√	V	_ √	_√	√	√	√	√	√	√	Explain how technology has expected and unexpected effects.
√.	V	V	V	√	V	V	√	V	V	√	Explore personal, societal, economic and environmental effects of technological systems.
√		✓	- √	√	√ 1	√	√	√ ]	√	√	Trace the historical development of at least one technology, identifying its effects and hypothesizing about its future.

### Grade 7

In State Builder	Construction	itanmental	Magliert	Histor	inutat Statest	Traffic	Technology	GRS-101		Jeografiate	Below are the Connecticut Standards of Learning in Math, Technology, Social Studies, and Science and arranged by competency area and Grade. The Standards are checked (√) to identify the extent to which TRAC PAC 2 modules relate to the Connecticut Standards.
V	√		√			√	√	√	√	_ √	Identify the social and economic impacts of automation and computer-controlled processing.
	_	-			_	-		-			Describe the universal input, process, output, feedback (IPOF) systems model.
<u>√</u>	_√_	_√	_√	_ √	_√_	√ √	<b>√</b>	<u>√</u>	_ √	<b>√</b>	Develop criteria for evaluating technology.
√ TEQU		V	<b>√</b>	√	√ warene	V	V	V	V	V	Identify and describe how individual technological innovations may be combined to create new technologies.
	-						unotion i		divorci	tu ovno	ctations, trends and requirements.
Student √	s will be	come aw	are of tr		or work a	and its it		n society	, aivers	ty, expe	Describe how technological development affects careers and occupations.
	<b>v</b>	<b>v</b>	V	v √	<b>v</b>	v √	v √	V	v √	v √	Demonstrate awareness of changes in job requirements over time.
٠ آ	٠ آ	٠ آ	v	√	√	√	√	√	√	√	Describe strategies for assuming responsibility.
V	V	V	V	V	V	V	V	V	√	_√	Develop personal responsibility and accountability in the workplace.
V	V	V	V	√	√	V	√	√	√	√	Define and discuss personal and professional ethics.
√	√_	V	√_	√	√_	√_	√	_√_	<b>√</b>	<b>√</b>	Discuss coping strategies for change.
<u>_/</u>	_√	_√	_√	_√_	_√	<u>√</u>	<u>√</u>	<u>√</u>	_√_	<u>√</u>	Identify expectations in the workplace.
<u>√</u>	√ ∕	√	√ ∕	√ √	√ ∕	√ ∕	_√_	√ ∕	√ ∕	<b>√</b>	Define and discuss the concept of "work ethic."
 √	<b>√</b>	<b>√</b>	<b>√</b>	<b>V</b>	<b>√</b>	<b>√</b>	<u>√</u>	<u>√</u>	<b>√</b>	<b>√</b>	Explore career options.
-	FD-C	v rades l	 5-8 - ₽r	oblem	v Solving	v n/Rese	arch &	Devel	v Domen	t V	Define and discuss "career path."
						-			-		disciplined problem-solving strategies to enhance invention and innovation.
√ √	√	√	v v	l √	√ V	√ v	√ ve act, a		√		Differentiate between human problems and needs.
٠ آ	- √	√	v	v	- √	v	√	√	√		Define decision-making, research and invention.
V	√	√	V	√	√	V	√	√	√	√	Discuss how technological systems have been used to solve human problems.
V	√	√	V	√	√	V	√	√	√	√	Select and apply a general problem-solving model in a laboratory setting.
V	√	√	√	<b>√</b>	√	V	<b>√</b>	√	V	√	Identify research methods, materials and techniques.
<u> </u>	_ √	_√_	_√_	_ √	_ √	_√_	_ √	_√_	_ √_	<b>√</b>	Apply cooperative tech-niques while engaged in group problem-solving activities.
<u>_/</u>	√ √	_√	_√	_√_	_√	_ √	_ √_	_√_	_ √_	<b>√</b>	Engage in an activity that requires creativity.
 √	√ ∕	_√	√ √	<b>√</b>	√ ∕	√ ∕	<b>√</b>	<u>√</u>	_ √	<b>√</b>	Describe and apply the processes used to make decisions.
 √	<b>√</b>	V -/	v √	√   √	<b>√</b>	_√	√ √	√   √	<u>√</u>	V	Apply appropriate and effective questioning techniques.
	 √	 √	 √	v √	 √	 √	v √	v √	v √	<b>v</b>	Conduct an applied research project. Develop, test and modify a design idea through experimentation.
	<b>v</b>	- -		- <b>v</b>	<b>v</b>	v √	₩ V	v √	<b>v</b>	<b>1</b>	Differentiate between invention and innovation.
	J.	J.	v	J.	J.	J	J.	J.	<b>v</b>	J.	Develop a solution for a real-life problem.
	ED - G	rades (	5-8 - Le	adersh	nip						
					ship attri	butes an	nd apply	them in t	eam situ	ations.	
											Create a simple flowchart of their daily activities.
√	V	V	- √	- √	V	V	√	√_	V	_ √	Engage in presentation activities.
<u>√</u>	<b>√</b>	_ √	_ √	√	√	√.	<b>√</b>	_√_	_ √	<b>I</b> √	Identify the elements of interpersonal communication.
<u> </u>	<b>↓</b>	<b>√</b>	<b>√</b>	<b>↓ √</b>	<b>√</b>	<b>√</b>	<u>√</u>	<b>↓ √</b>	<b>I</b> √	<b>I</b> √	Identify and demonstrate organizational skills.
<u></u>	<b>√</b>	<b>√</b>	_√	_√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>₩</b>	Explore different roles while working cooperatively and effectively in team situations.
 √	 /	v √	v √	v v	v √	 /	v v	v v	√   √	 	Demonstrate strategies for effectively managing time.
	<b>v</b>	v √		v √	<b>v</b>	,/	<b>.</b>	- <b>v</b>	<b>v</b>	<b>v</b>	Develop organizational skills through practical experiences. Explore different roles within a team environment.
	ED - G		5-8 - M		and P	rocess	es				
								ues asso	ciated w	rith the r	naterial building blocks of technology.
√	V	V	<b>v</b>	_√	<b>√</b>	√	<b>√</b>	√	√		Identify and describe a group of new and recycled materials used in technological systems.
V	V	√	V								Differentiate between primary and secondary raw materials.
											Explore methods used to convert raw and recycled materials into usable products.
	Ļ	ļ.,	ļ	ļ				<b>.</b>	L		Demonstrate the appropriate selection and safe operation of basic hand and power tools.
		√	√	_ √			<u> </u>	√			Use manual and electronic measuring devices accurately.
V	V	•									
V	√										Explore the principles of manual material-processing techniques.
√											Explore the principles of manual material-processing techniques. Describe how products are manufactured. Demonstrate a working knowledge of the layout, shaping, smoothing, assembly and finishing techniques used to produce a product.



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## Grade 7

Produce simple products from a variety of materials, using manual and computer controlled devices.



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# Grade 7

#### TECH ED - Grades 5-8 - Communication Systems

	ED - G												
Studen	ts will un	derstand	d and be	able to e	ffectivel	y apply p	physical,	graphic	and elec	tronic c	ommunications techniques in processing, transmitting, receiving and organizing information.		
√	_ √	V	V	V	V		V				Identify and give examples of integrated technologies.		
											Identify the elements of interpersonal communication.		
	_			_				_			Identify the elements of mass communications.		
_√	√	_√	_ √	_ √	√	√	√	√	√		Acquire technology based information and apply it in classroom and laboratory situations.		
√	√	√	√	_ √	√	√	√	√	<b>√</b>	√	Explore and explain the integration of communication technologies into transportation and production systems.		
√	√										Apply techniques of interpersonal and mass communication through activities such as sketching, CAD, photography, and video.		
V	<b>√</b>	<b>&gt;</b>	<b>√</b>	<b>√</b>	√	√	√	√	<b>√</b>		Evaluate and select appropriate methods of communication for a given problem or situation.		
TECH	TECH ED - Grades 5-8 Production Systems												
Students will understand and be able to demonstrate the methods involved in turning raw materials into usable products.													
V	<b>√</b>	<b>&gt;</b>	<b>√</b>								Define manufacturing terminology, including interchange ability, automation, standardization, etc.		
											Describe how products are manufactured using the methods of single craftsman, line and mass, and automated-robotics manufacturing.		
√	√	√	√	√							Identify and describe the tools and methods used in manufacturing products.		
											Identify the characteristics of sub- and superstructures.		
√	√										Identify and describe the tools, materials, and methods used in constructing sub- and superstructures.		
√	√	√	√								Design, construct and test models of shelters and other structures.		
											Produce a product using a simple production sequence: layout, shaping, smoothing, assembly, and finishing techniques.		
TECH	ED - G	rades !	5-8 - Tr	anspor	tation	Systen	ns	1	1	1			
Studen	ts will un	derstand	d transpo	ortation s	systems a	and the e	environm	ents use	ed to mo	ve good	Is and people, and the subsystems common to each.		
√	√	√	√	√	Ív	√	√	√	√		Differentiate between vehicular and stationary transportation systems.		
V	√	√	V	V	<b>√</b>	√	<b>√</b>	√	<b>√</b>	√	Differentiate between fixed and random-route land transportation systems.		
V	٠ آ	٠ آ	٠ آ	- V	Ĵ.	Ĵ.	Ĵ.	J.	Ĵ.	v	Describe and be able to identify the trans. subsystems of body/frame, propulsion, suspension, control, guidance and support in a variety of transportation devices.		
v	Ĵ.	Ĵ.	V.	J	J.	Ĵ.	Ĵ.	J.	Ĵ.	v	Explore the characteristics of lighter than air and heavier than air atmospheric transportation systems.		
V	v	√	v	v	v	v	J.	J.	V	v	Apply the concept of transportation subsystems while solving transportation problems.		
v	V.	√	- V	- V	√	V V	v	J.	V V	√	Identify and experiment with devices used to protect product and personnel in transportation systems.		
v	v	v	v	v	J.	J.	J	Ĵ	J.	v	Explore, build and experiment with model marine, space, land and airportation systems.		
_	ED - G			-				•			Explore, baile and experiment was means, opage, and an unpertaken systems.		
						nriso an	d how th	ov rolato	to produ	ict and	service production, economics, human and material resources, and technology.		
otuden	la will de	nonstra		ciniques	or enter			ey relate			Describe the evolution of techological enterprise.		
										v	Discuss the influence of enterprise on culture, society, and the environment.		
V	1	V	V	1	V	<b>√</b>	<b>√</b>	√	V	v	Define the terms single ownership, company, corporation, and partnership.		
	J J	v √	v √	J.	v √	v √	v √	v √	v √	v √	Explore the career possibilities and responsibilities in enterprise.		
	v √	V	V	v √	v √	v √	v √	v √	v √	v √			
	v √	_v √	v √	v √	v √	v √	v √	v √	v √	v √	Identify and explore a variety of organizational structures, describing the advantages and disadvantages of each		
<b>v</b>	₩.	v	<b>V</b>	₩ V	v	₩.	v	v	v	v	Explore market research and its relationship to satisfying consumer needs.		
TECH	ED - G	radoa	- 5 0 E-	l	ing De	cian	I	I	I	I	Develop, distribute and evaluate a customer survey.		
				<u> </u>				hiove d		100-00			
Studen		r	<u> </u>		· ·	ign proc	ess to ad			comes	s across all technology content areas.		
	v √	 _√	<b>√</b>	- V	v v	<b>v</b>	v √	√ √	 		Identify the elements of design.		
		-	√ √	<b>v</b>	-	<b>v</b>					Discuss the differences between problem soving and engineering design strategies.		
√	<b>√</b>	_√	√ ∕	√ ∕	√_	√ ∕	√ ∕	√ ∕	√ ∕		Explain the role of creativity in the engineering design process.		
√	√	√ ∕	√ √	√ ∕	√ ∕	√ ∕	√	√ √	√ ∕		Describe conceptual design, embodiment design, and detail design and identify their roles in the engineering process.		
	↓ √	_√	<b>√</b>	<b>√</b>	√ ∕	√ ∕	√	√ ∕	√ ∕		Explore a variety of creativity-enhancing techniques.		
<b>V</b>	<b>_ √</b>	√	_√_	<b>v</b>	√_	_√	<b>_ √</b>	_√	_√		Develop conceptual designes for transportation, communications, production and bio-related problems.		
<b>_</b> √	<b>V</b>	_ √_	_ √	<b>v</b>	<b>v</b>	√ ∕	<b>v</b>	<b>√</b>	_√_		Use a variety of creativity-enhancing techniques in conceptual design situations.		
	V	V	<b>√</b>	_ √	√	V	_ √	V	_ √		Explore techniques used to refine conceptual design sketches.		
V	√		V								Develop preliminary product layouts.		