5th Grade Tech ED Curriculum

Essential Questions/ Challenges	Standards	Learning Targets	Resources	Assessm ents	Lesson Ideas
Week 1-7 How can I learn to work and communicate faster through technology?	3-5.TC.2.	I can learn proper techniques to improve efficiency in keyboarding.	Typing.com	Assessment s are built into keyboarding program.	Lessons completed may be tied to material requests for bridge building.
Week 1 What are acceptable and unacceptable uses of technology? How can online information be used unethically? How can I take precautions to stay safe online? What types of information should not be given online?	3-5.DC.1. 3-5.DC.2. 3-5.DC.3. 3-5.DC.4.	I can evaluate acceptable and unacceptable uses of technology. I can evaluate ethical uses of information. I can describe precautions surrounding personal safety online. I can identify types of information that should not be given online.	https://sos.fbi .gov/	FBI SOS Assessment Kahoot Quizzes created around FBI SOS Website	FBI SOS Website Lessons completed may be tied to material requests for bridge build. Guest Speaker: Officer Smoes

Week 2-7	3-5.TC.1	I can use input and	GE Additive	Assessme	Tinkering
How can I use both input and	3-5.TC.4	output devices.	Education	nt will be	with
output devices in creating wind	3-5.TC.5	•	Program	based on	Turbines
turbines?		I can demonstrate proper		process to	
	3-5.CC.1	care for hardware and		final	
How can I care for computer		software.		product.	
software and hardware to	3-5.CT.3				
maintain functionality and keep		I can exchange files with			
longevity?	3-5-ETS1-1	students and teachers.			
	3-5-ETS1-2				
How do I share information with	3-5-ETS1-3	I can use digital			
students and teachers?		communication tools and			
	ETS1.B	online resources for			
How will the design process help	5-ESS3-1	group learning projects.			
make engineering decisions?	ESS3.C				
	HS-PS3-3	I can use digital			
	HS-PS3-1	resources to investigate			
		global issues.			
	5.NBT6				
	5.G2	I can plan a course of			
		action to obtain wanted			
		materials for bridge			
		building.			
		I can propose multiple			
		bridge decisions to			
		consider before building.			
		I can follow a plan			
		making adjustments			
		along the way to			
		incorporate			

		improvements.			
Week 2-7 How can I search for valued information using search engines? How do I know which information to value? How can the internet help me make decisions? How can I build a strong bridge?	3-5.RI.1. 3-5.RI.4. 3-5.CT.2. 3-5.CC.1.	I can use strategies for locating valued information. I can use multiple internet sources. I can us online information to help make building decisions. I can use digital communication tools and online resources for group learning projects.	PBS Building Big Website	Assessme nt will be based on process to final product.	Tongue Depressor Bridges
How can I use the Design Process to compete in challenges?	3-5-ETS1-1 3-5-ETS1-2 3-5-ETS1-3	I can plan a course of action to obtain wanted results in challenges. I can propose multiple bridge decisions to consider before building. I can follow a plan making adjustments along the way to incorporate improvements.	Blocks Dominoes Popsicle Sticks and Clothes Pins Goobi Magnets Paper, tape, and paper clips	Measurem ent Heights	Vertical Height Contests

6th Grade Tech ED Curriculum

Essential Questions/ Challenges	Standards	Learning Targets	Resources	Assessments	Lesson Ideas
Week 1: Design Thinking Activity: Using, wooden clothespins, binder clips and colored jumbo craft sticks, build a structure that can support the most possible weight.	Measurement-M.UN.06.01 Convert between basic units of measurement within a single measurement system, e.g., square inches to square feet.	Design Thinking Activity I can Collaborate with my group. Communicate with my group. Be creative. Use critical thinking skills. Use the design thinking process.		Exit Ticket each day- Sticky Note Activity pertaining to the Essential Question.	
(Completed 1 day a week) Digital Citizenship Lesson 1: How do you judge the intentions and impact of people's words and actions online? Lesson 2: How should you handle inappropriate online talk?	Lesson 1: ISTE Standards: 2a, 2b, 5a, 5d Lesson 2: ISTE Standards 2a, 2b, 5a, 5b	Digital Citizenship Lesson 1: I can • reflect on what it means to be brave and stand up for others offline and online. • learn to show empathy for those	Digital Citizenship: https://www. commonsen se.org/educa tion/lesson/c yberbullying- be-upstandin g-6-8		

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Lesson 3: What are the outcomes of presenting yourself in different ways online?	Lesson 3: ISTE Standards 1a, 1b, 4a, 4c, 4d, 5a	who have been cyberbullied. • generate multiple solutions for helping others when cyberbullying occurs.	https://www. commonsen se.org/educa tion/lesson/s afe-online-tal k-6-8		
Lesson 4: What is a digital footprint, and what does yours convey?	Lesson 4: ISTE Standards: 1a-c, 2a-d	Lesson 2: I can • describe positive aspects of online talking and messaging. • identify situations in which flirting and chatting become inappropriate and risky. • understand rules for safe online messaging, and feel empowered to deal with uncomfortable situations when communicating online. Lesson 3:	https://www.commonsense.org/education/lesson/which-me-should-i-be-6-8https://www.commonsense.org/education/lesson/trillion-dollar-footprint-6-8		
		I canreflect on the benefits and risks of			

presenting their identities in different ways online. • evaluate – from an ethical point of view – the feelings, motivations, contexts, and possible outcomes associated with adopting different roles online. • judge whether certain ways people present themselves online are harmless or harmful.
Lesson 4: I can I can I learn that they have a digital footprint and that information from it can be searched; copied and passed on; seen by a large, invisible audience, and can be persistent. recognize that people's online

		information can be helpful or harmful to their reputation and image. consider their own digital footprints and what they want those footprints to be like in the future.		
Week 2 Design a shoe that will fit 1 member of your group. The shoe must come on and off.	Creative Sequence Design Thinking			Present to the class.
Weeks 3 & 4 Design a product that will help kids enjoy Michigan winters.	Creative Sequence Design Thinking	I can Collaborate with a partner. Communicate with a partner. Use critical thinking skills. Be creative.	http://www.m ichigandesig ncouncil.org/ competition-i nformaton-a nd-applicatio n.html	Showcase product day!
Weeks 5 & 6 EV3 Robotics Course	Area Perimeter Geometry Measurement- M.UN.06.01 Convert between basic	I can Collaborate with a partner. Communicate with a partner. Use critical thinking skills. Be creative.	https://docs. google.com/ document/d/ 1-JYrh1n3R X3VS3b8Bm jFhWEV5eal Gv4Tamkfk2	All completed challenges will be posted to the Robotics Schoology Course.

	units of measurement within a single measurement system, e.g., square inches to square feet.	Measure using inches and converting to feet.	1TH4k/edit? usp=sharing		
Weeks 6 & 7 Design and engineer a tiny house for a client.	Area Perimeter Geometry Measurement - M.UN.06.01 Convert between basic units of measurement within a single measurement system, e.g., square inches to square feet.	Collaborate with a partner. Communicate with a partner. Use critical thinking skills. Be creative. Measure using inches and converting to feet.		Showcase house design day!	

Typing will be completed as a warm up activity, each day, for 5 min. I can...

• Become efficient in typing the 100 most common English words.

Typing Resource:

https://typing.com/teacher/dashboard