Lesson: TinyTys™ Pet Collar	**Teacher:**

CCSS/Aligned STEM:
 	
E.L.A. Presentation of Knowledge and Ideas-
CCSS.ELA-LITERACY.SL.K4
Describe familiar people, places, things, and events and, with prompting and support, provide additional detail.
CCSS.ELA-LITERACY.SL.K5
Add drawings or other visual displays to descriptions as desired.
CCSS.ELA-LITERACY.SL.K6
Speak audibly and express thoughts, feelings, and ideas clearly.
 	
STEM-
TECHNOLOGY (K-2) 2.E.
    People plan in order to get things done.
TECHNOLOGY (K-2) 1.D.
    Tools, materials, and skills are used to make things and carry out tasks.
TECHNOLOGY (**K-2) 6.A.**
     Products are made to meet individual needs and wants.
ENGINEERING DESIGN (K-2) ETS1-2.
    Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.
 	
ISTE:
Critical Thinking, Problem Solving, and Decision-Making, Technology Operations, Communication and Collaboration
 	
DOK: Depth of Knowledge Levels 3 & 4 Construction/Design and Extended Thinking
	Lesson Objectives
	1. TLW use TinyTys™ to design, create, and present a collar for a pet.
	2. TLW capture a digital image of the collar (image may be captured using any appropriate device, provided teacher can assist with downloading image for instructional purposes).
	
	Materials
	1. TinyTys™ Jewelry Kit(s)
	2. Ipad or other device to capture image
	3. Chart Paper or Whiteboard
	4. Projector and microphone

Content	**Teacher/Anecdotal/Reflection Notes**
Anticipatory Set Teacher describes a time when a pet was lost and couldn't be returned because their was no collar. Teacher allows students time to discuss their own experiences with lost and found pets, and allows one student to share out. The teacher then explains that students will be designing a pet collar and presenting it to your class!	
Input	

Task Analysis 1. The teacher explains that students will be designing a pet collar and presenting it to their class. 2. Teacher demonstrates how to use the device (Ipad) to record an image of a pre-made TinyTy pet collar, and projects the image on the screen for the class to see. (BE SURE TO HAVE PROJECTOR and VGA CABLE CONNECTED) 3. Teacher describes the collar explaining the kind of pet it is for and why a pet needs a collar. 4. Teacher explains that students will design a pet collar and record the image. They will need to tell the kind of animal it is for and why it is important. 5. Teacher distributes TinyTy™ kits. 6. Teacher assists students in collecting images of each creation. 7. When most students are finished, presenting images can occur as a class or in small groups depending on how many devices are available and the time allotted for this lesson.	
Check for Understanding **(While students plan/construct their collar)** Why would a pet need a collar? What can we use to show others this creation? Would you like to share your creation with a bigger audience? Why or why not? What can we use to record an image of our creation? Can you help others use the device to record an image now that we've worked on it?	
Guided Practice Teacher explains that students will work on designing and creating their own pet collars while the images are being recorded. When all students are finished recording their image, the teacher can load them on the projector to share, students can take turns describing their own collar's purpose and usefulness. The teacher concludes lesson by allowing students to think-pair-share- what they have learned about creating and sharing ideas.	
Independent Practice	

Extension Students create a TinyTy pet collar advertisement telling why pet collars are important. Students record and share images of their advertisement. Students can also ask families how people find lost pets on a computer. Families can contribute pet images via email for the class see, adding discussions about the length a pet collar should be if they needed one.	