Tide	Topics	Description	Equipment	Cost	Link	Author	Age Range	Notes									
Iridescent Al Family Challenge	Data collection, design thinking, classification, emotion detecting, science	Build CS and Al skills to identify a problem in your community and build an Al solution. Three stages with multiple modules each		Free	https://eeex. curioshymachine. crpichallenges/2 attentischallenges/1.5eta ges/1			Three stages, targeted at 15 family learning									
Nvidia DIGITS	Deep learning, neural networks,	Sides and assessments. 6		Free	Mile Delinechools		13-14	Assessments									
Calypso for Cozmo	intelligence, robotics, teleoperation, state machines,	Robot and visual programming language kit wi'desktop, laptop, or tablet. 12 modules total		\$14	5 titos licaloso sobranei		Al ages										
Appa for Good - Mt.	Machine learning, data collection, training, teating, chabbut, recommendation systems, filter bubbles, bayesian, self dinling care, bias, decision tree, k-means, tearnsuck, design, communication				https://eww. acostropood. croitoumes/machine- teaming		Primary Secondary, F	E 10-12 hours									
Al in a Box	Facial recognition, visual recognition, object manipulation, landmark-based navigation, speech generation, speech recognition			\$300-2909	hiba //www.needusi. croheadusi-youlai-h-a-	ReadyAl	Middle and Hig School	ph.									

Title	Topics	Description	Cost	Equipment	Link	Author	Age Range	Year	Notes											
	Chalbots	Students explore chalbots and then use Scratch to build their own	Free		http://acratched gas.harvard, edu/altes/defau titles/ai-leason plan.odf	Sarah Filman														
	Test, natural language processing, chatbots.	engage with chatbots, and form simple model of	Free		hillos conforaliteache E. croixvatemilies ispaculday 19 esc.doc	4	6th-9th grade													
Machine Learning for Kids			Free		https: (machinelearni nglodddaco, uk.Mi (andsheets	Dale Lane	All ages													
CS Unplugged		Students play variations of Scitacities to understand how formal instructions can inform infessionness.	Free		https://classic. caurel.acced. crotesticist- intelligence/		E+													

Title	Topics	Description	Cost	Link	Author	Age Range	Year	Notes											
				http://blog. stephenwolfram															
Machine Learning for Middle Schoolers			Free	com/2017/05/m achine-learning- for-middle- schoolers		11-14	201	7											
The Complete Guide to Artificial				https://store. maththrills. com/collections/ frontpage/products/he- complete-quide- to-artificial:															
for Kids			\$12.5	25 kids	Michael Milford	4-12	201	8											

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Google Al Experiments				Chrome	https://experiments.withgoogle com/collection/si				14									
App Inventor				Android device secommended	appinumitor mit adu				12									
Cozmo Codelab			\$179.99		https://www.anki.com/en- us/cozmo/code- lab/constructor-mode													
AIY			\$49.99-89.99		https://bisprojects.withocopie. com/				14									
TensorFlow Playground					https:/blayground.tensorfow.				16									
Cognimates Studio					https://mitmedialab.github. io/cognimates-website/about/			7-	10									
De a Maker for Jibo				Jibo	https://www.jbo.com/be-a- maker/													
Google What If				Chrome	https://pair-code.github.io/ahal Educii	L .												
ECraft 2 Learn Al					https://ecraft2leam.pithub. local/				14									

Title	Topics	Description	Link	Author	Age Range	Year	Notes											
Envisioning All for K-12: What should every child know about Al?		Describes "5 big ideas in Al" and links to resources in Al	Envisioning AL for K-12: What should every child know should AI?	David Touretzky, Christina Gardner- McCurre, Fred Martin, Deborah Seehorn	K12	201	9											
CSTA K12 CS Standards			https://www. cateachers. org/page/stand cds	4	K12													