## UNIT A: INTRODUCTION

Lesson	Materials	Learning Objectives Students will be able to:	Description (5 E Aligned with What the Teacher Does)
A1 Hello mTiny! <b>Driving Questions:</b> What is a Robot? Who makes robots? What is an Engineer? Time: 60 min+	Pretest Lesson Plan Student Handout Robot Roadmap YouTube videos: - Unboxing video - "What is an Engineer?" Teacher Guide	Identify 2-3 features of the mTiny robot Name 2-3 properties of engineers Define/illustrate: • Robot • Engineer • Technology • Solve • Create	This lesson measures students' prior knowledge of <b>robots</b> and <b>engineers</b> . The unboxing portion is used to <i>engage</i> students and encourage their curiosity. Students then <i>explore</i> mTiny and the kinds of people that create <b>technology</b> like it. Go on a journey with your students as you complete a roadmap of knowledge and skills!
A2 Team s and Sharing <b>Driving Questions:</b> How do we take turns and share? How do we act like engineers? Time: 60 min+	Lesson Plan Teacher Guide YouTube videos: - Sharing Cookies - What's an Engineer?	Demonstrate daily classroom norms and procedures Demonstrate sharing Identify 2-3 responsibilities for 3 different kinds of engineers Define/illustrate: • Share • Fair • Disappointed • Team • Teamwork • Badge • Engineer	This lesson combines SEL and STEM topics. The lesson begins with a discussion on the importance of <b>sharing</b> . Then, students <i>explore</i> the many <b>emotions</b> mTiny can express with the purple expressions cards. Students <i>discuss</i> different types of engineers and are tasked with assigning specific roles in their teams.

A3 mTiny Robot Overview	Lesson Plan Student Handout	Demonstrate how to play	Students get first-hand experience <i>interacting</i>
<b>Driving Questions:</b> How do we control mTiny? How can we be safe and take care of the robot?	<u>mTiny image</u> YouTube videos: - <u>mTiny Coding Kit</u> - <u>Unboxing Video</u>	and its components Demonstrate 2-3 basic mTiny functions	students to <i>explore</i> all of mTiny's components, as well as scenarios that require <b>coding</b> . This lesson works as an introduction to <b>programming</b> . Students wrap up the lesson by
Time: 60 min+		represent information Count and understand the relationship between counting and robot actions	mTiny.

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