

| MISSION 0: Getting Started | | Time: 10-20 minutes |
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| Overview: <p>This lesson is for you to set up a classroom in CodeSpace and have the students join the class. Also, students take a survey about their attitude about coding.</p> | | Cross Curricular: <p>This section will detail areas where the CodeX mission compliments another core subject.</p> |
| Materials Included in the learning portal Teacher Resources: Teacher Dashboard in CodeSpace <p>Step-by-step instructions to get you started in CodeSpace and set up a class for your students to join. Setting up your class gives you a join code to share with your students. After they join, you can track their progress in the teacher dashboard.</p> Getting Started Slidedeck <p>The slide deck is student-facing instructions during teacher-led instructions. It will show them how to get started in CodeSpace and join your class. You can use the slides to guide students through the steps. It is an alternative to the students reading a lot of instructions in CodeSpace. The slides mirror the instructions, with simplified language that is chunked into smaller sections at a time. The information shown on slides with “Objective”. The tasks to complete are on slides with “Mission Activity”. The slides also tell the students when to write something in their Mission Log.</p> Getting Started Workbook <p>The workbook can be used instead of slides for student-led or independent work. It mirrors the slide deck. You can use the workbook if students will work at their own pace, or if you have students that need to see their own instructions and not just have them displayed on a large screen.</p> | | |
| Links: <ul style="list-style-type: none"> • Short CodeX video (on Youtube and Firia website) • CodeX video on youtube | | Formative Assessment Ideas: <ul style="list-style-type: none"> • Student joined the classroom (you see them on your dashboard) |
| Vocabulary: <ul style="list-style-type: none"> • Browser: Software that displays web pages • Cloud: A place to save files and data through the Internet | | |
| Preparing for the lesson: <p>Students do not need the Codex for this lesson.</p> <ul style="list-style-type: none"> • Log in to CodeSpace (https://make.firialabs.com/) • Create a class and write down the join code for you students (Teacher Dashboard in CodeSpace) • Make sure students have an email address they can use to log in and create an account. • Look through the slide deck and workbook. Decide what materials you want to use for presenting the lesson. The slide deck can be projected on a large screen. The workbook (if used) can be printed or remain digital through your LMS. | | |



- If you have a word wall, or another form of vocabulary presentation, prepare the new terms.
- Watch the videos and decide if you want to show either one at some point during the lesson (beginning or end to build motivation)

Lesson Tips and Tricks:

Teaching tip:

You can use a variety of discussion strategies to get the most engagement from your students. For example, you can have students write their answers before asking anyone for an answer. You can use one of many think-pair-share methods. You can have students write their answer and share with someone, and then have other students share answers they heard from their peers. You can randomly select students to answer.

Pre-Mission Activity:

Give your students the [Student Coding Attitude Survey](#). You can duplicate the form and then have your students fill out their attitude about coding. Please share the results with Firia Labs. You can also use the survey at the end of the course to see if attitudes changed after completing the Mission Pack.

Pre-Mission Activity:

If you choose, you can show one of the CodeX videos from youtube to introduce the physical device to students and give them a preview of what they will be doing during the missions.

Pre-Mission Discussion:

SAY: If you showed a video, say: “The CodeX has a circuit board that you can see.”

SAY: “Many electronic devices have circuit boards inside. The tools and techniques you will learn apply to all the electronic devices you use every day! Can you name a few devices you use everyday that might contain a circuit board?”

Possible Answers:

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| • Microwave oven | • Video game controller | • Alarm system |
| • Cell phone | • Refrigerator | • Robots |
| • Automobile | • Home thermostat | • Automatic garage doors |
| • Watch or fitness tracker | • Coffee maker | • Electronic locks |

Mission Activity:

Go through the slide deck, or have students go through the workbook, to create a free account and log in.