

QUICK-START GUIDE

This guide is designed to help educators implement SEMI Foundation resources into classroom or educational settings. Each resource can be used independently or collectively. This guide suggests sequential steps for the holistic integration of these semiconductor industry resources into K - 12 educational environments, but educators may use them in any order to introduce students to the fascinating world of semiconductors and microelectronics.

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WHERE WE STARTED

Commerce Secretary
Gina Raimondo
Applauds Final
Passage of CHIPS and
Science Act of 2022

<https://bit.ly/guide-www>

2

WHERE WE ARE NOW

A CHIPS R&D Event
with the White House
and Department of
Commerce on
02/09/2024

<https://bit.ly/guide-www>

3

LET'S LEARN

...what a
semiconductor
chip is!

<https://bit.ly/guide-learn>

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EXPLORE

All K - 12 resources are
available on the SCAN
website:

<https://bit.ly/guide-explore>

Use above website to
access resources
5 - 9

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SEMI HIGH TECH U

- Micro:bit coding kits
- Circuit Scribe electronics kits
- Re-usable; enough for all of your classes

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ROADTRIP NATION: CHIP IN DOCUMENTARY

- Create engagement during the viewing with the viewer's guide
- Continue the excitement with a trivia contest revolving around industry professionals' interviews from the documentary

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SEMI STORIES & OTHER VIDEO RESOURCES

- Students engage with industry professionals through Tiggbee partnership
- Show other industry-related videos to introduce students to the industry

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SEMI CAREER EXPLORATION SITE

- Explore and embed STEM-related fields into lessons
- Access skills and interest surveys for career awareness and pathways

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K - 12 SEMICONDUCTOR RESOURCE REPOSITORY

- Grade-level lesson plans and resources
- Seamlessly integrate these topics into your classrooms

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DEPARTMENT OF LABOR INDUSTRY RESOURCES FOR NECESSARY JOB SKILLS & COMPETENCIES

CareerOneStop:
Semiconductor-Nanotechnology Model

<https://bit.ly/semiconductor-nanotechnology>