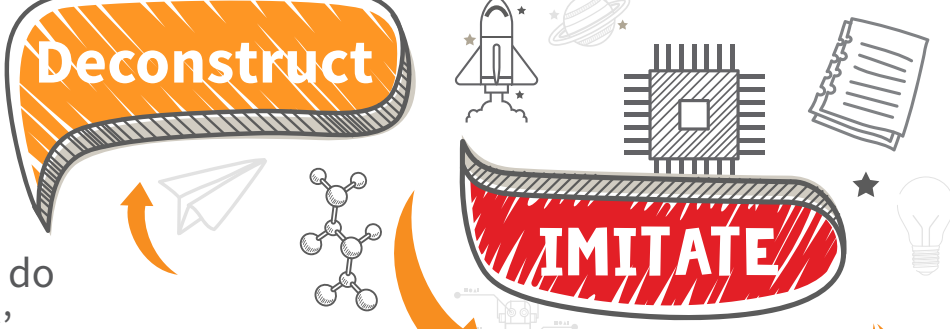
nysci | STEMscopes DIVE-IN 3-8 ENGINEERING



This is what real-world engineers do every day. Unleash your students' creativity with DIVE-in Engineering, a curriculum where **makerspace meets engineering design** and being an engineer becomes a reality.

THE DIVE MODEL

In each of the available prototypes, students explore a different engineering challenge and develop critical thinking skills using our engineering lesson model, DIVE.

DECONSTRUCT

Working the way engineers do, students begin by taking apart a working prototype, making recordings, taking measurements, and creating diagrams.

IMITATE

Now students are ready to reverse engineer the prototype, making their own version of what they deconstructed.

VARY

Students analyze what they have created and brainstorm ways to enhance it, e.g. different materials, faster speeds, higher flying altitudes, increased carrying capacity, etc.

EXPLORE

Students apply what they have learned through the engineering design process to a real-life situation: how can their innovation make a difference in the real word?

PROTOTYPE OPTIONS

- Balloon Boat, *$300*
- Rubber Band Car, *$300*
- Stomp Rocket, *$300*
- Motor Boat, *$300*
- Motor Car, *$300*
- 3 Way Switch, *$300*

Each kit comes with enough materials for 12 student prototypes and 1 teacher prototype kit.

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