Bridge the gap between the traditional engineering kits of today’s classrooms where students are simply told to build a standard product and lead students into a true makerspace where they experience a more flexible degree of freedom through the DIVE method.

**Deconstruct:**
Working the way engineers do, students begin by taking apart a working prototype. By recording measurements, making diagrams, and taking notes, the students prepare for the next step.

**Imitate:**
Now students are ready to reverse engineer the prototype, making their own version based on what they learned during the Deconstruct.

**Vary:**
In the next step, students analyze what they have created and brainstorm ways to make it different. Can they make it bigger? Smaller? Can they replace or remove parts?

**Explore:**
The knowledge and skills gained by the students in the previous steps have prepared them for the final exploration in which they solve the original problem in a new way, or apply the solution they have used to a totally new problem.

In each grade band, students will explore nine different engineering solutions, in three different units: On the Move, Around the House, and Eyes, Ears & Hands.

Sample Units: