LEGO® Robot Vehicle Lesson Plans for Secondary Education:
A Transportation Recruitment Tool

- Utilizing the LEGO® Mindstorms NXT, these transportation-related lesson plans for middle school-aged students foster interest in the transportation engineering profession as a career choice.

- The lesson plans teach students how an intelligent vehicle can help mitigate congestion by preventing crashes through the use of sensors and computer programming.

- Vehicle programming exercises include movement of the intelligent vehicle, following a route, emergency vehicle detection, pedestrian detection, travel distance and travel time calculations.

- Students learn how much transportation affects the quality of life in our society.