



a WOW Lab

**BLUEPRINT**

Selection in Action

## Lesson Logistics

### Learning Outcomes

Grades 7-9	Grades 10-12
Reproduction	Genetic continuity
	Evolution, change, and diversity

### Class Organization

Each student must build his or her own car.

Ensure that each student has at least 15-20 Lego and K'Nex pieces of different shapes and colours and at least two sets of wheels.

For Round Two, students will be divided up into groups of two or three.

### Notes

Place bins containing various pieces of Lego, K'Nex and wheels around the classroom so students have room to build their cars.

If a car acquires a hereditary mutation, ensure that it is passed on to the next generation during the Reproduction stage.

After setting up the obstacles, ensure that they are covered so that students cannot see them while they are building their cars. Some obstacles require floor space. If using the obstacles containing water or soap, it may be helpful to have old towels on hand.

The cost for this activity varies greatly depending on how many of the obstacles are built and if some or all of the Lego and K'Nex pieces are available at home or in school. The estimate of \$539 is based on the assumption that new sets of Lego and K'Nex will be purchased and all of the obstacles will be built. Ask if the school has Lego or K'Nex in the kindergarten classrooms or keep an eye out at garage sales. See if two or three classes wish to purchase one set of Lego and K'Nex to share. The obstacles can all be created with materials found in the classroom, school or home.



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### **Further Exploration**

#### **Research Project**

This activity will likely bring up many questions about evolution and the natural world. Brainstorm these questions on the board and, working in groups or individually, have the students pick a question that they will research for a project.

#### **Museum Visit**

Visit a Natural History museum in your area. Most museums have educational programs with guided visits and activities, and can cover evolutionary themes that have been discussed in class.