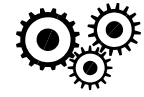




**In the Classroom:**

**Grade Level:** 3-12

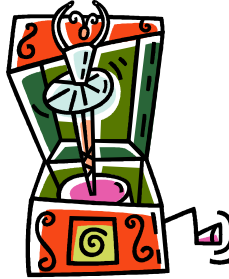
**Building Skills:** Gears



**Time:** 45 min

**Programming Skills:** Music

## **Music Box**



*Build a moving music box.*

### **Challenge**

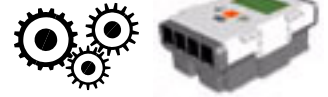
In this activity, design and construct a working RCX or NXT music box in which LEGO mini-figures move while a song plays.

### **Materials**

RCX or NXT  
Assortment of LEGO pieces  
Sensors

### **Skills Learned**

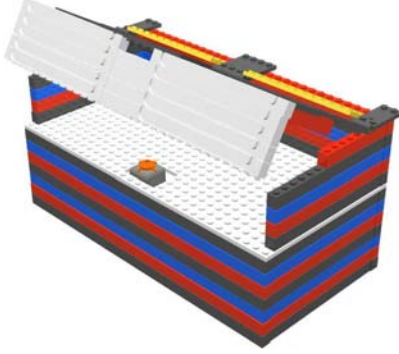
Learn to build with gears and to program with music.



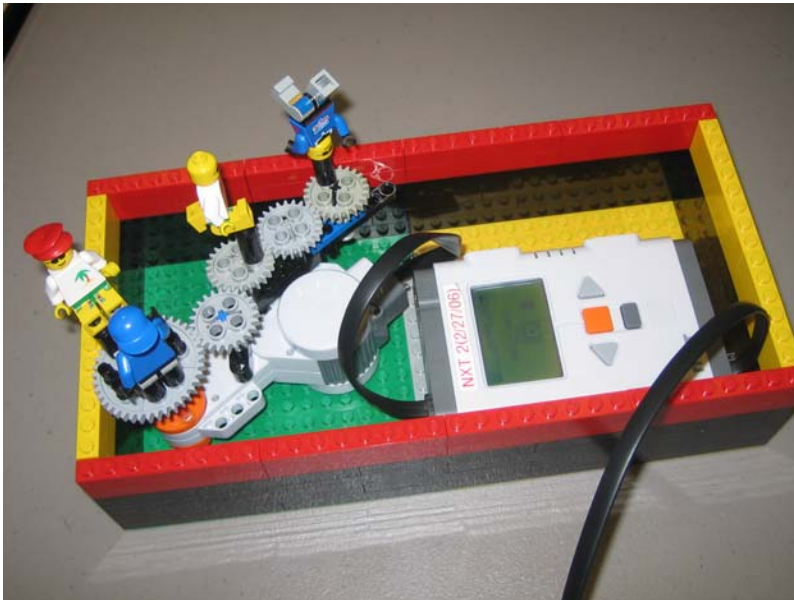
## Procedure

### Building

Build a music box using either an RCX or NXT that uses at least 1 sensor and consists of gears.



The music box should consist of at least 1 sensor and a series of gears.



### Programming

1. Choose whether to use ROBO LAB or the LEGO NXT Software to program (Note: You cannot use the LEGO NXT Software if you chose to build your music box using the RCX).



2. Here is an example ROBOLAB INVENTOR 4 program.



3. Here is an example LEGO NXT Software program.



4.

