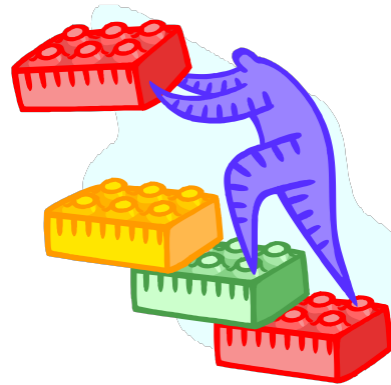


# Travelling Wheels & Levers Information

## GRADE 4 SCIENCE WHEELS & LEVERS

This half day program at your school includes approximately 2 ½ hours of activity. The program is designed to give students the hands-on experience of constructing simple machines with Lego Dacta.



The following is a list of activities that may be included. Learner expectations that will be addressed are indicated beside each activity:

- |           |    |                                                                                                                                                                                                                             |
|-----------|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| SLE 6,7,8 | 1. | Construct models of levers used for a variety of tasks - predict and then experiment with those models testing the amount of work by moving the load, fulcrum and/or effort                                                 |
| SLE 4     | 2. | Construct simple models using pulleys with different belt arrangements and fixed pulley wheels of the same and different sizes                                                                                              |
| SLE 3,4,5 | 3. | Construct models using simple gears, gear systems that change the direction of rotation, drive systems that transfer motion from one shaft to another as well as gear arrangements that are at right angles to one another. |
| SLE 3     | 4. | Construct models that combine gears, pulleys and/or wheels and axles (optional)                                                                                                                                             |

