



Name(s): \_\_\_\_\_

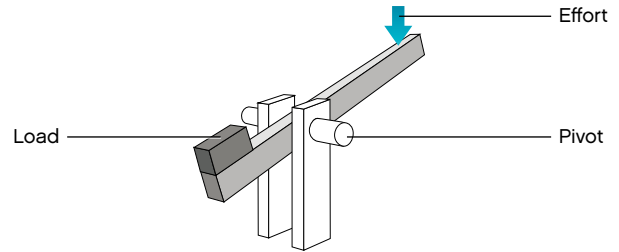
Date and subject: \_\_\_\_\_

## Principle Models: Levers

Student Worksheet

### Things to talk about:

- What do you know about this simple machine?
- Where do we use this simple machine?
- Why do we use this simple machine?



### 1. Build C1 (First class lever C1).

Follow Building Instructions C, pages 4 to 12, steps 1 to 10.

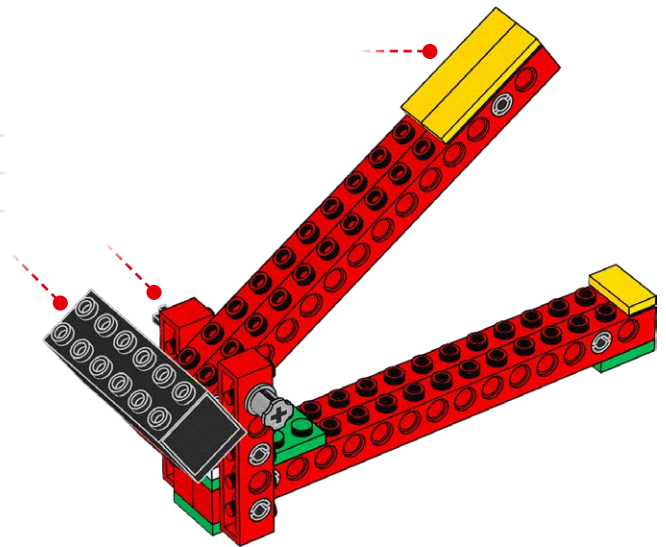


### 2. Label the lever.

Draw lines from the words to the picture of the model.



- Effort ●
- Pivot ●
- Load ●



### 3. Classify an item.

Which real life item is a first class lever?  
Circle the item or write your answer here:



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a) Crowbar



b) Nutcracker



c) Tweezers

**4. Try out the model and make observations.**

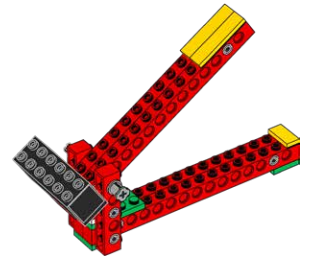
Try out lever C1. Assess and make a note about the amount of effort needed to move the load.



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**1. Build C2 (First class lever C2).**

Follow Building Instructions C, page 14, step 1.



**2. Try out the model and make observations.**

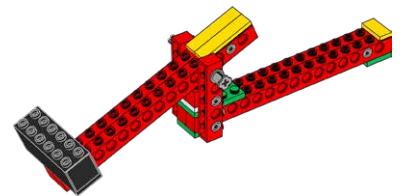
Try out lever C2. Assess and make a note about the amount of effort needed to move the load. Observe how the difference in length from the pivot to the load affects the amount of effort needed to move the load.



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After testing both levers, compare your observations and explain, either by writing your answer or by drawing with different sized arrows, how much effort is needed with each lever.



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