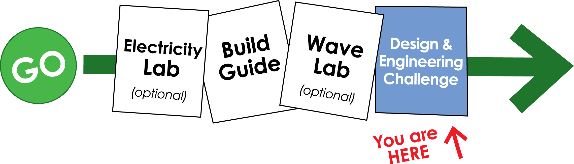
|  |  |
| --- | --- |
| [For use with TeacherGeek Wiggle-Bot Activity.](https://teachergeek.com/products/wiggle-bots) | |
| **Super Wiggle-Bot**  [single: *SKU 1823-16*](https://teachergeek.com/products/wiggle-bots?variant=13701612932) [10 pack: *SKU 1824-56*](https://teachergeek.com/products/wiggle-bots?variant=13702323204) | **(Regular) Wiggle-Bot**  [single: *SKU 1823-17*](https://teachergeek.com/products/wiggle-bots?variant=13701612868) [10 pack: *SKU 1824-57*](https://teachergeek.com/products/wiggle-bots?variant=13702307972) |
| *All include extra parts for your own innovative creations!* | |

[](https://teachergeek.com/blogs/projects/wiggle-bots)   
  
Engineer a **Wiggle-Bot** to go as fast as possible, and win races.

Download Documents and get your supplies at **teachergeek.com**

 **Constraints:** (things your design can not, or must, do or be)

* Race Track
  + 15cm (6in) wide, with meter sticks on either side (**Quick Tip:** place loops of tape under   
    the sticks to hold them in place)
  + Use two or more lanes for **Wiggle-Bots** to race
  + A start and finish line marked by tape
* Racing Rules
  + **Wiggle-Bots** must stay in their lane during the race.
  + **Wiggle-Bots** must be held, and then let go,   
    at the start of the race. No pushing.
  + **Wiggle-Bots** can only move using the power from their motor.
  + Maximum **Wiggle-Bot** dimensions: 15cm (6in) Wide, 30cm (12in) Tall, 30cm (12in) Long
* Allowable Components
  + TeacherGeek **Wiggle-Bot** components
  + Teacher approved recycling bin materials
  + One AA battery
* You will have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to complete the challenge.

Fill in how much   
time you have

**Challenge Supplies:**

**Required:** sticks for race track sides, a flat table top or floor (to race on), recycling bin materials (cardboard, packaging, paper), tape, scissors, *Engineering Notebook* pages, stopwatch.

**Recommended:** TeacherGeek Multi-Cutters, philips screw driver, hammer & tapping block, markers.



**The Engineering Design Process:**

You will be using the Engineering Design Process. What does that mean? Your design is never finished (it can always be improved). There is no such thing as a perfect design. Fill out a new *Engineering Notebook* page each time you design/redesign your **Wiggle-Bot** racer.



Class: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Set: \_\_\_\_\_\_\_\_\_\_\_\_\_

Record the time it took for the **Wiggle-Bot** design to go down the track.

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Group Name | Design  #1 | Design  #2 | Design  #3 | Design  #4 | Design  #5 | Design  #6 | Design  #7 | Design  #8 | Design  #9 | Design #10 |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |

Race the fastest **Wiggle-Bots** against each other (on side by side tracks).

