  A few sites I use a  lot are Steve spangler ([www.stevespanglerscience.com](http://www.stevespanglerscience.com)) & Makezine.com

I need to get some more things for wired for wind - so I put the numbers I found onsite in below for 2011

2008 - Hydrogels

   Any diaper works so ask around and you might get some donated

   Hydrogel- Powder (Water Gel - Sodium Polyacrylateform & Water Jelly crystals (steve spangler-<https://www.stevespanglerscience.com/store/water-gel-magic-slush-powder.html>

    For the longer version - plain potting soil works fine - local ag or home improvement store

2009 - Biofuels

      You may already have funnels and balloons, but most things you can get at a local grocery store or superstore

      Have families save bottles for you

2010 4-H20

       Most things you can get locally

       In winter usually a pet store will give you some water that's a good starter for algae growth

      Bromethyl Blue (Amazon or [www.carolina.com](http://www.carolina.com))

      \*You can substitue and use an indicator like purple cabbage for pH   (It is in several 4-H curriculum how to make "Kitchen Chemistry")

2011- Wired for wind

      I've attached a sheet (DIY page final - with several options)

     PVC Pipe for turbines 1" home depot

      Dowels - home depot or craft store

     Protractor - 4 4 Kidwind via vernier.com  KW-BPP Kit

    (Hub/25 dowels/generator) 10pk $135 Kidwind via vernier.com  KW-BTPART10 (also signe sets $14) Kit

     (Extra hubs) 3pk $30 Kidwind via vernier.com KW-BTH3 (also 10 for $66)

2012 - Ecobot

     You can order vibrating motors from radioshack or similar store - or by kits

     WE got toothbrushes and batteries from our local dollar tree store

<http://makezine.com/projects/building-brushbot-kits/>

|  |  |
| --- | --- |
| [http://makezine.com/wp-content/uploads/2012/12/FN6qYIl6UhrvZGGR.jpg](http://makezine.com/projects/building-brushbot-kits/) | [Building BrushBot Kits | Make:](http://makezine.com/projects/building-brushbot-kits/)  makezine.com  BrushBots are easy to make and fun to race! |

     Other supplies - craft and we had a lot of items .

2013- Maps to Apps

    Not sure where you can get the large transparencies, but you can do on a smaller scale

    I've also used vinyl from a craft store when I was practicing before the kits arrived and it worked.

2014- Rockets to the Rescue

   You can use PVC pipe from the hardware store to make launcher (Often they may cut for you or ask if someone can help you as easier than doing with a hacksaw or something yourself)

    \*The book has the different lengths and connectors you need to build - so you can print and take with you to the store.

   We have not bothered with corks when we have replaced as we have used clay or tape to cover in the end and they still add weight to balance.

2015 - Motion Commotion

   Some kits were still available, but I also used (vinyl base board) from home depot for tracks and you can usually  by in 4 ft sections in the store for about $4 each

   For cars I started getting hotwheels since they are fairly heavy so work well and I've looked for one like a pickup truck or convertable that they could put a driver or something in from clay.

   ( I've tried some other cars from the dollar store, but axles not always on straight and inconsistent.)

  Rulers and thinks easy to find.

2016 - Drone Discover

   They still had kits, but you can order a Key camera online and the foam gliders I've gotten at walmart and dollar store in the summer as they need to be replaced after a time.