

Having Fun with *Crank It Up!*

Are you ready for some learning fun? In this project you will learn about basic small engines. You will learn about engine parts, tools of the trade, safety issues, and what makes small engines work.

But that isn't all you'll be doing. You'll learn more about yourself, too. You'll learn things you can use all your life, like planning and organizing, comparing and measuring, decision making, communication, safety and problem solving.

You'll also find some words that are **boldfaced** in the activities. The meanings of these words are found in the Specs (short for "Specifications") section at the end of this activity guide.

Your Portfolio

You'll want to save all your good ideas as you complete this project. Start a *Start Your Engines!* Portfolio to save all your notes, drawings, pictures, and other things you create. You can use a big envelope, manila folder or a box for your portfolio.

Your Project Helper

There is a lot to do in *Crank It Up!* Do at least seven activities this year. There are 14 main activities in this project guide. There are lots of other fun activities in the Race Ahead sections.

You don't have to do all of this alone. Ask a parent, neighbor or older friend to guide you in this project. Your helper can help you find the things you'll need for an activity. Your helper can also assist you as you talk about what you learned. When you're done with an activity, your helper can check it off the list on page 4 in this guide.

Write the name, address, phone number, and email of your project helper here.

My project helper

Phone

Address

Email

Inventory

Tools and Supplies You Will Need for Activities in *Crank It Up!*

- | | | |
|---|--|--|
| <input type="checkbox"/> Lawn Mower | <input type="checkbox"/> Feeler Gage, Wire | <input type="checkbox"/> Screw Driver-Phillips |
| <input type="checkbox"/> Owner's Manual | <input type="checkbox"/> Hammer | <input type="checkbox"/> Socket Set |
| <input type="checkbox"/> Pencil | <input type="checkbox"/> Open-end Wrench Set | <input type="checkbox"/> Socket Wrench-ratchet |
| <input type="checkbox"/> Paper | <input type="checkbox"/> Pliers | <input type="checkbox"/> Spark Plug Socket |
| <input type="checkbox"/> Box-end Wrench Set | <input type="checkbox"/> Screw Driver-blade | |

Good luck with *Crank It Up!*