

## Having Fun with *Tune It Up!*

Are you ready for some more challenges in *Start Your Engines!*? In this unit you will learn about tearing down and rebuilding an engine, using diagnostic tools, rules and regulations regarding small engines, selecting an engine, and potential small engine careers.

And you'll continue to learn more about yourself, too. You'll learn things you can use all your life, like planning and organizing, decision making, communication and marketable skills. Remember, continue to save all your notes, drawings and pictures in a *Start Your Engines!* Portfolio.

### Your Project Helper

Do at least seven *Start Your Engines!* activities this year. There are 14 main activities in this project guide and several 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 guide you as you talk about what you learned. When you're all done with an activity, your helper can check it off the list of activities in this guide.

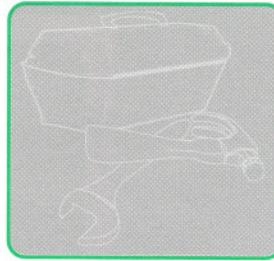
*Write the name and phone number  
of your project helper here*

My project helper

Phone

Address

Email



### Inventory

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

- Box-end wrench set
- Calculator
- Compression tester
- Dial indicator
- Digital multimeter
- Feeler gauge, wire
- Flywheel holder
- Flywheel puller
- Hammer
- Lawnmower
- Micrometer
- Needle nose pliers
- Open-end wrench set
- Owner's manual
- Paper
- Pencil
- Piston ring compressor
- Piston ring expander
- Pliers
- Ruler or tape measurer
- Screw driver-blade
- Screw driver-Phillips
- Socket set
- Socket wrench-ratchet
- Spark plug socket
- Spark tester
- Starter clutch wrench
- Tang bender
- Torque wrench
- Vernier calipers
- Vibrating wire tachometer
- Valve spring compressor

**Good luck with Level 3  
of *Start Your Engines!***