

Teaching Tips for *Energy, Machines, and Motion*

Equipment Reminders

Batteries

- As soon as you unpack the kit, follow the steps outlined in Appendix C of the teacher's guide, pg. 265, to discharge the size D rechargeable batteries.
- After the class completes Lesson 4, re-charge the batteries used during the lesson so they will be fully charged and ready to use in Lesson 7.

K'NEX®

- Be sure to refer to the K'NEX assemblies poster or Appendix A in the student guide when connecting the K'NEX pieces to each other. Especially note how the blue and purple connectors attach to each other.

Lesson Hints

Lesson 7

- You may want students to wear safety goggles when they are lifting the washers with the motor. Follow your educational system's guidelines for appropriate use of goggles.

Lesson 18

- If you teach this module to more than one class simultaneously, you will need 16 fully charged AA batteries for the 8 fan cars used in each class. The *Energy, Machines, and Motion* kit provides 32 AA batteries. After their initial use, re-charge one set of 16 batteries while the class uses the other set, so you will have a steady supply of charged batteries for the lesson.

Lesson 19

- Enough mousetraps are included in the kit to make one class set of mousetrap cars. If you are teaching this module to more than one class simultaneously and you want each class to build mousetrap cars, you will need to purchase additional mousetraps.