

Lesson 4 More gears

Objectives: Students have an opportunity to do more experiments with gears and to experiment with using chains, straight gears, cranks, and rods.

Materials: 1 full Georello Gear Tech set per group
1 copy of examples from Gear Tech manual per group
1 copy of Learning with Gears from Gear Tech Educator's Guide per student

Sponge: Look at handout from Georello with picture of bicycle gears and chains.

Initial

Discussion: Ask students about gears they found around their homes.

Show students how to disconnect chains.

Project: Give students handouts from Gear Tech. Students experiment using the examples and write-ups in the Gear Tech manuals. Students will write at least four things that they learn about gears while experimenting. Students should be prepared to present what they learned and to show their final gear example to the class.

Vocabulary:

Final

Discussion: Students present their final gear example and what they learned about gears.

Clean up: Put small parts into ziplock bags.

Home

Connection: Continue looking for things that use gears. Students tell families what they have learned about gears.