

Record Sheet 12–A

Names: _____

Date: _____

What Happens If . . .

Look at your propeller-driven vehicle. Pick three or more of the following questions to test. Test them in any order you choose. Try to move your vehicle after each change you make. Record your observations in the space provided. Remember to return the vehicle to its standard form after each question.

What happens if . . .

- . . . you wind the propeller 30 times quickly? What happens if you wind it 30 times slowly? How does the vehicle move each time?

- . . . you wind the propeller clockwise 30 times? What happens if you wind it counterclockwise 30 times? How does the vehicle move each time?

- . . . you turn the vehicle around so the propeller is on the back of the vehicle?

- . . . you change the position of the rubber band so it is attached at an angle?

- . . . you add tires to the propeller-driven vehicle?

Record Sheet 12–A

Names: _____

What Happens If . . . , continued

- . . . you move the vehicle on a different surface, such as carpet or vinyl?

- . . . you place the propeller lower on the vehicle? (Modify the vehicle so the propeller is closer to the ground.)

- . . . you use four connected rubber bands instead of three? (Attach another rubber band to the three connected ones and then test the vehicle.)

- . . . you use two parallel sets of rubber bands on the vehicle? (Put two sets of three connected rubber bands, side-by-side, on the vehicle. Now test the vehicle.)

Now write and test one of your own questions.

- What happens if . . .

