

Name: _____

Period: _____

Which parts would you chose to build a system that moves the rock the FARTHEST?

Spring (small/large)
Bulldozer (small/large)

Rock (small/large)
Surface type (smooth/rough)

Student 1

The large spring because it has more force →
The large bulldozer because it has more mass (or more force →)
The small rock because it less mass
The smooth surface because it has less friction

Student 2

The large spring because it has more force →
The small bulldozer because it has less friction (or more force ←)
The small rock because it has less mass
The smooth surface because it has less friction

1. Construct an argument explaining if you agree or disagree with the students' explanation.

I agree with student ____ because ...

I disagree with student ____ because ...

2. Fill in the blanks on the following sentence frames using the green words from the word bank.

Friction / Gravity / Mass / Force → / Force ← / Force ↓ / Force ↑

This makes a system with more/less _____ and more/less _____.

An object moves more/less when the _____ is small/large and the _____ is small/large.