Name: _____ Date: _____

A Steeper Ramp Makes a Faster Toy Car

Circle group

Mia and Dev have a toy car and a long board. They make a ramp. One end of the board sits on a few books.

Mia lets the car go. It rolls down. It is slow. It stops soon.

Dev adds more books. The ramp is steeper. Mia lets the car go again. Zoom! The car goes fast. It goes far.

The Earth pulls the car down. On a steep ramp, the pull moves the car more. A flat board does not work. The car needs a slope.

Questions

1. What do Mia and Dev use to make a ramp?

_____

_____

2. What happens on the small ramp?

_____

_____

3. What does Dev add?

_____

_____

4. What pulls the car down?

_____

_____

5. What would a flat board do?

_____

_____

Words to know

ramp: a slanted path that goes up or down
steeper: more tilted, with a sharper slope
slope: a surface that is tilted

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

A Steeper Ramp Makes a Faster Toy Car

Triangle group

Mia and Dev have a toy car and a long board. They make a ramp. They set one end of the board on a small stack of books.

Mia lets the car go. It rolls down the ramp. It goes slowly and stops soon.

Dev adds more books. The ramp is steeper now. Mia lets the car go again. Zoom! The car rolls down fast. It goes far across the floor.

The pull of the Earth makes the car roll down. On a steep ramp, that pull works harder to move the car. So the car speeds up more.

A flat board does not make the car go anywhere. It needs a slope.

Questions

1. What do Mia and Dev use to make a ramp?

_____

_____

2. What happens on the small ramp?

_____

_____

3. What does Dev add to the stack?

_____

_____

4. What makes the car roll down?

_____

_____

5. What would happen if the board were flat?

_____

_____

Words to know

ramp: a slanted path that goes up or down
steeper: more tilted, with a sharper slope
stack: a neat pile of things
slope: a surface that is tilted

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

Name: _____ Date: _____

A Steeper Ramp Makes a Faster Toy Car

Square group

Mia and Dev have a toy car and a long board, and they decide to build a ramp. They rest one end of the board on a small stack of books.

Mia lets the car go. It rolls down the ramp, but it moves slowly and stops before long.

Dev adds several more books, so the ramp is steeper. When Mia lets the car go again, zoom! It races down the board and rolls far across the floor.

The pull of the Earth is what makes the car roll downhill. On a steep ramp, that pull works harder to move the car, so the car speeds up more.

A flat board would not make the car go anywhere, because the car needs a slope.

Questions

1. What do Mia and Dev use to build their ramp?

_____

_____

2. What does the car do on the small ramp?

_____

_____

3. How does Dev change the ramp?

_____

_____

4. What makes the car roll downhill?

_____

_____

5. What would happen if the board were flat, and why?

_____

_____

Words to know

ramp: a slanted path that goes up or down
steeper: more tilted, with a sharper slope
stack: a neat pile of things
slope: a surface that is tilted

Talk together (every group has these)

1. Find one fact that every group read. How did your sheet say it?
2. What did your sheet tell you that you think another group's did not? Ask them.
3. What is one question about this topic that none of the sheets answered?

For the teacher: A Steeper Ramp Makes a Faster Toy Car

Each student sheet carries a shape, not a level. The same topic and facts, written three ways.

Circle: A Steeper Ramp Makes a Faster Toy Car

Easier · 88 words · Flesch-Kincaid grade -1.5

1. A long board and books.
2. The car is slow and stops soon.
3. More books.
4. The Earth.
5. The car would not go, because it needs a slope.

Triangle: A Steeper Ramp Makes a Faster Toy Car

This passage · 113 words · Flesch-Kincaid grade -0.5

1. A long board and a stack of books.
2. The car goes slowly and stops soon.
3. More books.
4. The pull of the Earth.
5. The car would not go anywhere, because it needs a slope.

Square: A Steeper Ramp Makes a Faster Toy Car

Harder · 124 words · Flesch-Kincaid grade 2.4

1. A long board and a stack of books.
2. It rolls slowly and stops before long.
3. He adds more books to make it steeper.
4. The pull of the Earth.
5. The car would not go anywhere, because it needs a slope.