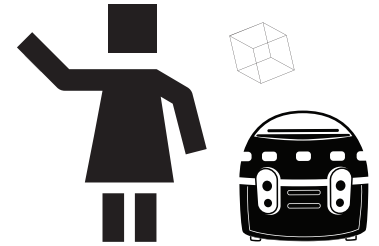


SEESAW WITH FRIENDS

TEACHER GUIDE



INSTRUCTIONS:

Draw the seesaw in the picture for each situation. Circle whether each seesaw is balanced or unbalanced. Then answer the questions on the next page. Model each situation using your kit and weights.

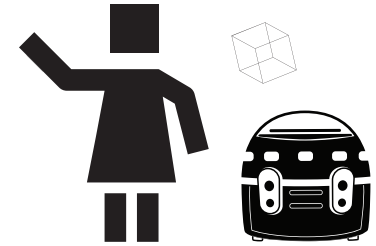
The image shows two separate seesaw scenarios within rounded rectangular frames. In the first scenario, a boy (Joey) is on the left side of a tilted seesaw and a girl (Kim) is on the right side. The seesaw is tilted upwards on the right side. Below the seesaw is a triangle representing the fulcrum, and the words 'Balanced or Unbalanced' are written below the fulcrum, with 'Unbalanced' circled. In the second scenario, the boy (Joey) is on the left side of a horizontal seesaw, and two girls (Kim and Linny) are on the right side. The seesaw is perfectly horizontal. Below the seesaw is a triangle representing the fulcrum, and the words 'Balanced or Unbalanced' are written below the fulcrum, with 'Balanced' circled.

Joey sits on one end of the seesaw and Kim sits on the other end. Is the seesaw balanced or unbalanced?

Joey sits on one end of the seesaw and Linny joins Kim on the other end. Is the seesaw balanced or unbalanced?

SEESAW WITH FRIENDS

TEACHER GUIDE



What would happen if Joey got on the seesaw first?

If Joey gets on the seesaw first, that side will go down. When Kim gets on, the seesaw won't move because Joey's side has a greater force pressing it down.

What would happen if Kim got on first?

If Kim gets on the seesaw first, that side will go down. When Joey gets on, the seesaw will move so his side is down because Joey's side has a greater force pressing it down.

Is there a way that Joey and Kim could have a balanced seesaw? If yes, how?

Yes, there is a way that Joey and Kim could have a balanced seesaw. If Joey move toward the fulcrum the center of mass changes and the seesaw can be balanced.

What happens to the motion of the seesaw in the situation with Joey, Kim and Linny?

When Linny gets on the seesaw on Kim's side, the seesaw will be balanced because Kim and Linny's weight is the same as Joey's weight. They will be able to play on the seesaw easily.

Explain balanced and unbalanced forces to a friend, or draw your own picture showing balanced and unbalanced forces on the right side of this page.

