

Activity Two

1. Using the space rocket you made in Activity One, try:

- i. balancing the rocket by the centre skewer on the end of a broom handle and holding out the broom handle
- ii. adding more skewers and modelling clay to make a giraffe, a spider, or another creature.
- What questions do these experiments raise? Discuss with your classmate.

Activity Three

1. Make a tightrope walker by following these instructions:

Step 1

Push a skewer vertically through a block of polystyrene so that a short length sticks out from the bottom. Push 2 more skewers into the bottom of the block at an angle of about 45 degrees. Attach blobs of modelling clay to these 2 skewers so that the block balances on your finger.

Step 2

Next, tie a piece of thin string or builders' twine across the room and balance your tightrope walker on the string. You could have a whole class of tightrope walkers on the string!



- c. Why do some walkers rebalance better than others?
- d. How is a walker like a see-saw?
- Discuss with a classmate what you now know about balancing and what makes an object unbalanced.

3.

Exploring angles, position, weight, and length and their relationships