

Choice box.
You up, me down.



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You up, Me down. Assignment card.

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1 to 2 people - 20 minutes.

How do we proceed?

1. Collect things you can use as leverage. Always make sure you have support. For example, you might use a ruler, pencil, stick or broomstick as leverage and a book, eraser or box as support.
2. First we make a seesaw. For example, you support a slat with an eraser. You support the bar in the middle so that it stays in place. When the bar stops swinging it is in balance. Now you can compare the weight of objects by placing them on the ends of the bar. The heaviest object goes down, the lightest goes up.
Make a list of: is heavier than.....
3. Place an object at each end but make sure one is heavier than the other. Now try to balance the objects by moving the bar.
4. Now use the broom handle to lift something. Investigate how to move a heavy school bag with a lever. What happens if you move the support point to one side or the other?
5. Test out all kinds of other situations with your levers and supports.



You up. Me down. Explanation card.

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1 to 2 people - 20 minutes.

How can you move a heavy stone with one hand?

You put a stick under it and rest it on another stone, and hop... you push the heavy stone aside.

The stick is your lever, the stone is the support.

We are going to investigate what you can do with such a lever.



Use the assignment card.