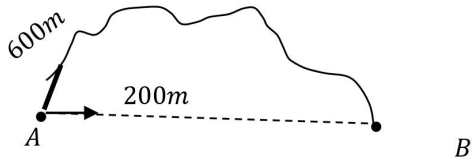
Science

Grade 7

Force and Motion

- Below shows two paths that a child could take, to travel from a point A to another point B.



1. What is the distance travelled by the child?

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2. What is known as distance?

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3. What is the length of the shortest path out of the above two paths?

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4. The straight distance between two points is A and B. What is the special name given to it?

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5. No definite ..... for the distance.
6. ..... has definite.....
7. The standard unit of measuring distance and ..... is .....
8. Write three activities that you do at home using force

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9. Write two activities which can be done at the classroom using force

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10. What is meant by force?

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11. Write the standard unit of measuring force

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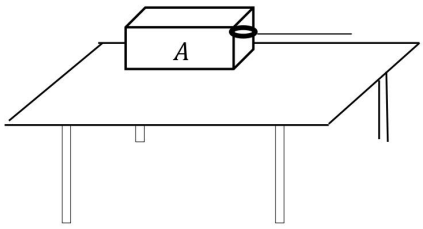
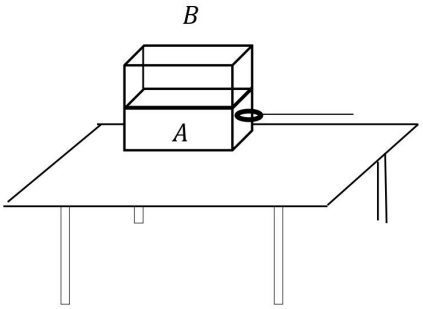
A and B are two identical wooden blocks. A small hook is attached to the block A and placed on the table. As shown in the diagram a strong rubber band is attached to the hook and pull forward until the wooden block begins to shake.





12. What happens to the rubber band?

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13. As shown in the diagram (2) , place the wooden block B on the block A and pull the rubber band again. What can you say about the rubber band when pulling it?

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14. What is the reason for such a difference?

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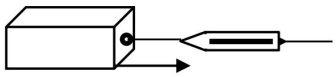
15. Attach a Newton spring balance using a piece of string to a wooden block kept on the table. Pull the wooden block using the Newton balance towards the arrow head.



- Write two observations.

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16. According to that force has a ..... as well as a definite .....

17. Hit a ball which is at rest in the ground. What happens to the ball?

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18. What has happened to the ball due to applying a force? Expalin

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19. In a volleyball tournament, a student strikes the oncoming ball. What happens to the ball?

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20. What has happened to the ball by applying the force in that action? Expalin.

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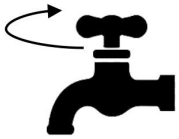
21. A force is applied to a tap in the direction indicated by the arrow. What happens?



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22. Explain what has happend to the water tap by applying a force.

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23. Beat a clay ball with your hands . What happens?

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24. Explain what happened to the clay ball by applying force?

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25. When Tighten the brakes on a riding bicycle. What happens to the bicycle?

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26. Explain the effect of force on the bicycle.

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27. Push the ball from back which goes along the ground. What happens?

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28. Explain what happened to the ball due to the force exerted.

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