STUDY GUIDE ANSWERS

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Popham 6 Science

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Ms. Browne

1. WHAT IS A FORCE?

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A force is a push or pull
There are two main types of forces balanced and
unbalanced

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✤ The unit to measure forces is a Newton (N)

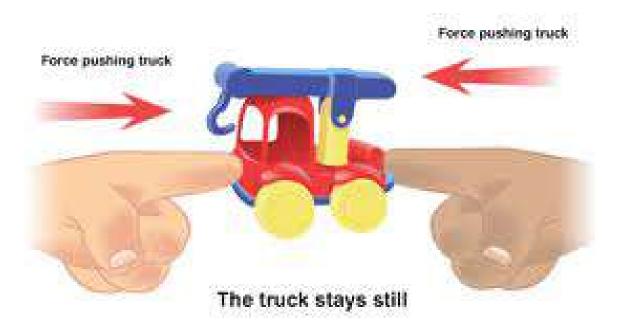
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3. THE AFFECT OF BALANCED FORCES?

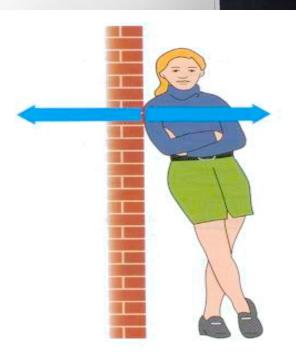
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✤ Balanced forces are equal in size and opposite in direction.

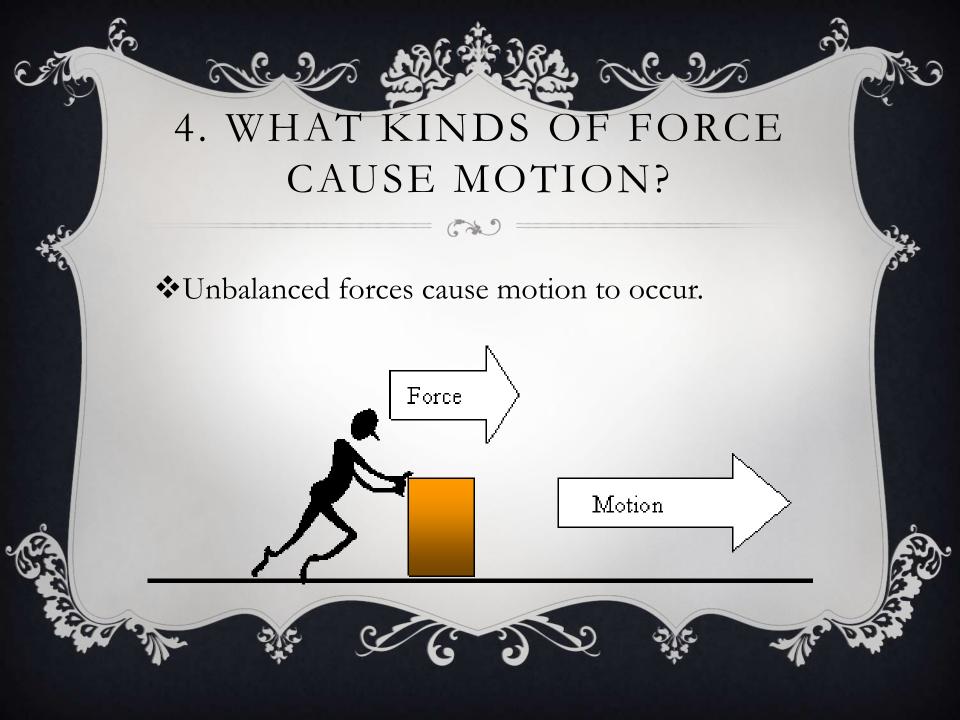
✤ Balanced forces DO NOT cause motion. The object will be at rest.



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5. HOW DO UNBALANCED FORCE CAUSE A CHANGE IN MOTION?

✤ Unbalanced forces can cause:

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- An object at rest to move
- An object in motion to speed up
- An object in motion to slow down
- An object to change direction
- An object to stop its motion



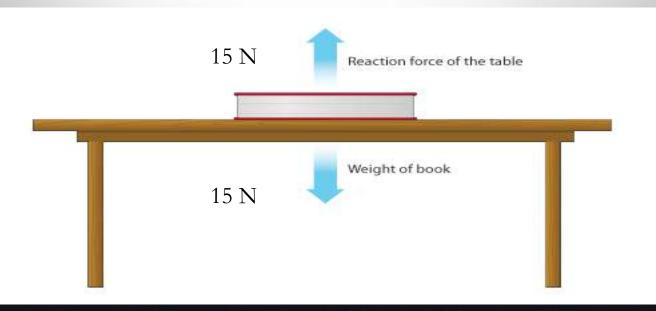
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6. HOW ARE NET FORCES CALCULATED? DIAGRAMED?

Net force is calculated by adding together forces acting in the same direction and subtracting forces acting in opposite directions.

✤ Forces are diagrammed using arrows.

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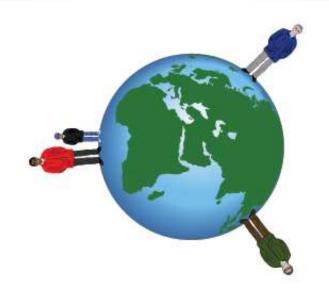


7. WHAT IS GRAVITY?

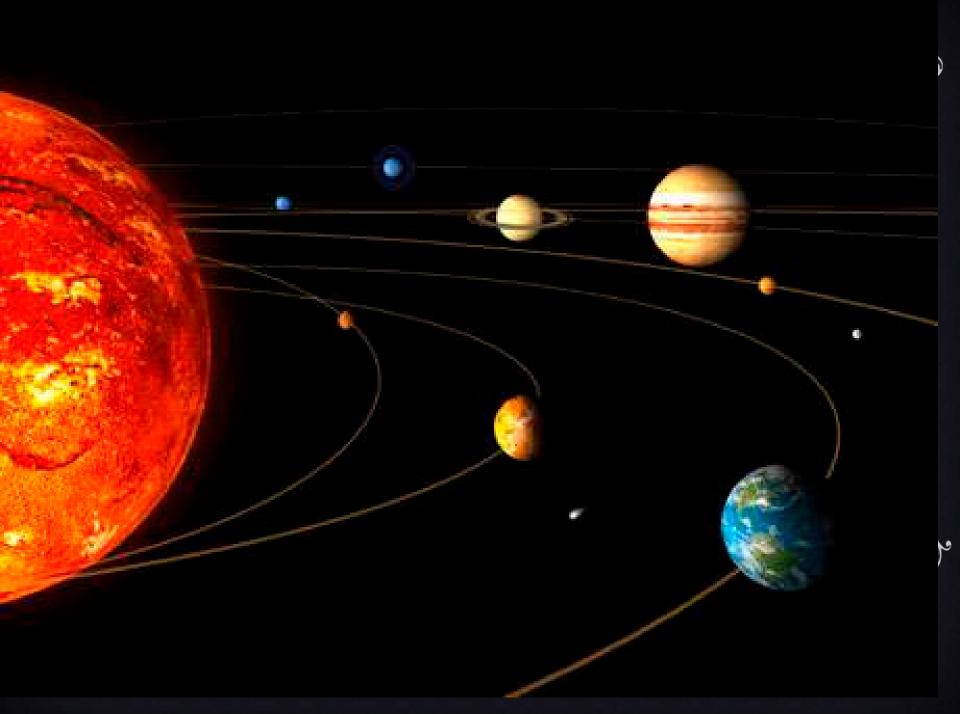
✤ Gravity is the force of attraction between all objects in the universe

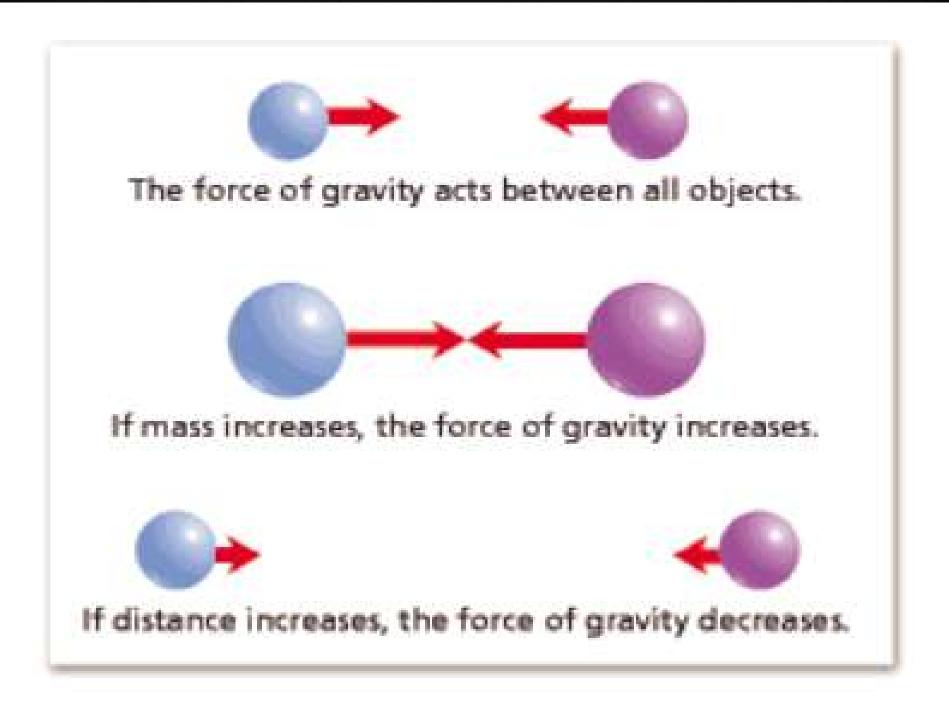
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* On Earth, gravity pulls objects towards Earth's dense core









10. WEIGHT AND GRAVITY? WEIGHT AND MASS?

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Weight = 120 x 10

= 1200 N

✤ Weight is a measure of the pull of gravity on an object.

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Mass is the amount of matter in an object whereas weight is a measure of the pull of gravity.

Mass = 120 kg Weight = 200 N

11. AIR RESISTANCE?

✤ Air resistance is the force of air push against an object falling through Earth's atmosphere. Air resistance is not the same for all objects. Objects with a larger surface have more air resistance.

