
Newton's Laws of Motion Poster	Date	Period	Name
--------------------------------	------	--------	------

Sir Isaac _____ lived during the 1600s. He made observations about _____. His observations have been supported by more data over time; and we now call these *Newton's _____ of Motion*.

★**Newton's first law of motion** says that an object at rest will stay at _____ and an object in motion will stay in _____ unless acted on by an _____ force.

o An object that is not moving remains at rest until something pushes or _____ it.

o This tendency to _____ a change in motion is called _____.

o The more _____ an object has, the _____ its inertia.

★**The second law:** states that the force of an object is equal to its _____ times its _____.

o More MASS would require more _____ to accelerate or move it.

★**Newton's third law:** states that for every _____ there is an equal and opposite _____.

o When one object exerts a force on a second object, the second object exerts an _____ force in the _____ direction on the first object. oThe force exerted by the first object is the action _____.

oThe force exerted by the second object is the _____ force.

Newton's Laws of Motion Poster	Date	Period	Name
--------------------------------	------	--------	------

Sir Isaac _____ lived during the 1600s. He made observations about _____. His observations have been supported by more data over time; and we now call these *Newton's _____ of Motion*.

★**Newton's first law of motion** says that an object at rest will stay at _____ and an object in motion will stay in _____ unless acted on by an _____ force.

o An object that is not moving remains at rest until something pushes or _____ it.

o This tendency to _____ a change in motion is called _____.

o The more _____ an object has, the _____ its inertia.

★**The second law:** states that the force of an object is equal to its _____ times its _____.

o More MASS would require more _____ to accelerate or move it.

★**Newton's third law:** states that for every _____ there is an equal and opposite _____.

o When one object exerts a force on a second object, the second object exerts an _____ force in the _____ direction on the first object. oThe force exerted by the first object is the action _____.

oThe force exerted by the second object is the _____ force.

Newton's Laws of Motion Poster	Date	Period	Name
--------------------------------	------	--------	------

Sir Isaac _____ lived during the 1600s. He made observations about _____. His observations have been supported by more data over time; and we now call these *Newton's _____ of Motion*.

★**Newton's first law of motion** says that an object at rest will stay at _____ and an object in motion will stay in _____ unless acted on by an _____ force.

o An object that is not moving remains at rest until something pushes or _____ it.

o This tendency to _____ a change in motion is called _____.

o The more _____ an object has, the _____ its inertia.

★**The second law:** states that the force of an object is equal to its _____ times its _____.

o More MASS would require more _____ to accelerate or move it.

★**Newton's third law:** states that for every _____ there is an equal and opposite _____.

o When one object exerts a force on a second object, the second object exerts an _____ force in the _____ direction on the first object. oThe force exerted by the first object is the action _____.

oThe force exerted by the second object is the _____ force.

What to do:

1. Draw an example of **each** of the three laws of motion all on 1 paper. You may use your device for ideas.
2. Include an **explanation** of how the illustration **demonstrates** the law of motion. Put the explanation next to the illustration. See below on what terms you MUST use.   *Do not just copy what the law is*  

POINTS	1 st Law	2 nd Law	3 rd Law- should have 2 objects in drawing
ILLUSTRATION Accurate, neat, colored	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0
EXPLANATION Accurate and includes terms, terms are <u>underlined</u>	Terms: rest or motion 1, unbalanced force 1 (The _____ is _____ unless acted on by an _____ force)	Terms: force 1, acceleration 1, mass 1 (ex. The full wagon has more _____, so needs more _____ to accelerate)	Terms: draw arrows that are equal in strength .5 and opposite in direction .5 Text describing the action and reaction 1.5 (see notes pg____)
This page needs to be stapled to your poster. Overall Points _____/15			

What to do:

1. Draw an example of **each** of the three laws of motion all on 1 paper. You may use your device for ideas.
2. Include an **explanation** of how the illustration **demonstrates** the law of motion. Put the explanation next to the illustration. See below on what terms you MUST use.   *Do not just copy what the law is*  

POINTS	1 st Law	2 nd Law	3 rd Law- should have 2 objects in drawing
ILLUSTRATION Accurate, neat, colored	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0
EXPLANATION Accurate and includes terms, terms are <u>underlined</u>	Terms: rest or motion 1, unbalanced force 1 (The _____ is _____ unless acted on by an _____ force)	Terms: force 1, acceleration 1, mass 1 (ex. The full wagon has more _____, so needs more _____ to accelerate)	Terms: draw arrows that are equal in strength .5 and opposite in direction .5 Text describing the action and reaction 1.5 (see notes pg____)
This page needs to be stapled to your poster. Overall Points _____/15			

What to do:

1. Draw an example of **each** of the three laws of motion all on 1 paper. You may use your device for ideas.
2. Include an **explanation** of how the illustration **demonstrates** the law of motion. Put the explanation next to the illustration. See below on what terms you MUST use.   *Do not just copy what the law is*  

POINTS	1 st Law	2 nd Law	3 rd Law- should have 2 objects in drawing
ILLUSTRATION Accurate, neat, colored	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0	Good 2.5 Fair 2 Needs improvement 1.5 1 0
EXPLANATION Accurate and includes terms, terms are <u>underlined</u>	Terms: rest or motion 1, unbalanced force 1 (The _____ is _____ unless acted on by an _____ force)	Terms: force 1, acceleration 1, mass 1 (ex. The full wagon has more _____, so needs more _____ to accelerate)	Terms: draw arrows that are equal in strength .5 and opposite in direction .5 Text describing the action and reaction 1.5 (see notes pg____)
This page needs to be stapled to your poster. Overall Points _____/15			

