**Unit 2: Force and Motion/ Simple Machines**

 **STUDY GUIDE**

***Be able to define, match, identify, and give examples of the following:***

|  |  |  |
| --- | --- | --- |
| * simple machine
* compound machine
* pulley
* lever
* screw
* inclined plain
* wheel and axle
* wedge
 | * force
* friction
* load
* mass
* work
* energy
* potential energy
* kinetic energy
* motion
 | * inertia
* speed
* velocity
* acceleration
* gravity (universal and Earth-specific)
* Newton’s Laws of Motion (all three!)
* Newton’s Law of Universal Gravitational Force
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**Use the following resources to help you study:**

1. **YOUR NOTEBOOK!**
* *Missing pages? Forgot your notebook? Photos of my notebook pages are posted on my* *website!*
1. **MY WEBSITE!**
* [www.newnham4th.weebly.com](http://www.newnham4th.weebly.com) 🡪 science 🡪 Unit 2: Force and Motion/Simple Machines
* scroll down for videos, games, and Quizlets
* ***\*KIDS:*** YES, GAMES ARE CONSIDERING STUDY MATERIALS! But ONLY if you can explain how they relate to the vocabulary and concepts of this unit.
* ***\*\*Parents:*** If your children can’t confidently explain a game using the domain-specific vocabulary (above), I fully support your decision to kick them off until they can!
1. **IXL**
* *ixl🡪 learning 🡪 science🡪 fourth grade 🡪 force and motion*

**✯ EXTRA CREDIT OPPORTUNITY✯**

***Earn up to 10 bonus points on your test!***

Build a simple, small catapult at home and bring it to school on the day of your test. You may use any materials you want, but they must be safe and acceptable for a school environment. If there are materials in my classroom you would like to use, please talk to me and we can work out something.

THIS IS COMPLETELY OPTIONAL, so no pressure whatsoever!