

Name \_\_\_\_\_  
Clark  
Science Period \_\_\_\_\_  
Date \_\_\_\_\_

Due 8/24

Fix 8/27

# NOTE4

## Gravity and Inertia (666-669)

Vocabulary: gravity,  
inertia

**TSWBAT:** understand and explain gravity and inertia (or what keeps the Earth and moon in orbit).

Questions/Main Ideas

Notes/Pictures

What is a force? (p.666)

A force is a push or a \_\_\_\_\_. Most require objects to be in contact.

The force that holds the moon in orbit is a force that acts over long \_\_\_\_\_ between objects that are not in \_\_\_\_\_.

What is gravity? (p.666)

Gravity is a force that \_\_\_\_\_ all objects toward each other. Newton realized it occurs \_\_\_\_\_.

What is the law of gravitation?  
(p.666)

\_\_\_\_\_ object in the universe attracts every other object.

What determines the strength of gravity? (p.667)

The strength of the force of gravity between two of objects depends on two factors: the \_\_\_\_\_ of the objects and the \_\_\_\_\_ between them.

*Please draw the picture on page 667 in your notes.*

What is weight? (p.667)

The force of \_\_\_\_\_ on an object.

If gravity is constantly pulling, what keeps the moon in orbit?

Newton concluded that two factors— gravity and inertia — combine to keep the moon in orbit around Earth.

What is inertia? (p.668)

The tendency of an object to \_\_\_\_\_ a change in motion.

How do gravity and inertia work together to keep the moon in orbit? (p.669)

Earth's \_\_\_\_\_ keeps pulling the moon toward it, preventing the moon from moving in a straight line. At the same time, the moon keeps moving ahead because of its \_\_\_\_\_.

*Please draw and label (gravity and inertia) the picture on page 669*

Summary (8 sentences using at least 2 vocabulary words, definitions, and examples)

# No Summary