

Name \_\_\_\_\_ Date \_\_\_\_\_

## CONCEPTUAL FORCES

answer key

Answer the following problems below using complete sentences to earn full credit

How do we calculate the weight of an object?

$$w = mg$$

$$\text{weight (N)} = \text{Mass (kg)} \times \text{Acceleration Due to Gravity (9.8 m/r}^2\text{)}$$

What changes depending on location in the universe, weight or mass? Explain...

Mass is the measure of matter in an object. Weight is the force of gravity pulling on an object. Mass stays constant regardless of location. Weight depends on the gravitational field produced by near by large masses.

State Newton's First Law of Motion.

Also known as the law of inertia. An object at rest remains at rest. An object in

ich across a table 0.75 m wide.

Calculate the work done by a 2.4 N force pushing a 400 g sandw