**Four Corners:**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

**What happens to mass when an actual space rock hits a planet?**

*After the completing the Dropping Objects lab, four students were debating about what really happens when a rock from space hits a planet. When thinking about the mass of the planet after the collision, this is what they each said:*

**Angie:** “The mass of the planet definitely increases by the mass of the space rock.”

**Ricardo:** “I think the mass of the planet increases a little but that some mass is converted to energy.”

**Terrance:** “The planet’s mass doesn’t really change because matter from the space rock and on the ground is vaporized.”

**Yubi:** “The mass of the planet could decrease because the speed of impact converts lots of the matter into heat or other forms of energy.”

*With whom do you agree the most? Answer and explain why on your Doodle Sheet.*

Adapted from Page Keeley’s *Uncovering Student Ideas in Life Science,* VOL.1, NSTA press, 2011



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Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Period: \_\_\_\_ Date: \_\_\_\_\_\_\_\_\_

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