

Density Ideas

Name _____

Formative Assessment Probe

Period _____

Some students are having a discussion about density in their science class. Examine the four statements below and choose the student that you feel has the best understanding of density. Explain your reasoning and experiences on the back of this paper.

Student Ideas:



Diane: "I think that density is determined by the mass of the object. If it is more massive it will be more dense. A tree is more dense than a piece of paper because it is more massive."



Tony: "I think that the volume makes up the density. If you have 32 ounces of soda it is more dense than 12 ounces of soda because there is more soda."



George: "I think that the shape affects the density. If I flatten a penny, it will be less dense because it is more spread out."



Doris: "I think density is how heavy something is. If it weighs more, it will be more dense. Like the difference between a cannonball and a BB, the cannonball is more dense because it weighs more."

Your choice of student: _____

Your Reasons: _____

Your Experiences: _____
