

PHYSICS PHOTO PROJECT RUBRIC

ITEM	POINTS
Blog posting with the Title of the Photo	5
Original image taken BY student	40
Image identified as Natural or Contrived	5
Physics Principle(s) Identified	20
Clear, thorough explanation of the physics principles and how they are depicted on image	30

EXAMPLE

'LIFE IN BALANCE'



Contrived photography demonstrating Newton's First Law.

The photo shows my dog balancing a cup of coffee. This is an example of Newton's First Law because the coffee cup is in equilibrium on the dog's head, moreover, Newton's First Law states that an object at rest will remain at rest unless there is an unbalanced force acting on it. This is a result of the cup's inertia, that is, its tendency to continue in the same state of motion which in this case is at rest.

The forces acting on the cup are the gravitational force exerted by the Earth on the cup and the normal force exerted by the dog's head on the cup. These two forces are equal in magnitude and opposite in direction and since they are acting on the same object the net force is equal to zero. If my dog were to walk at constant speed in a straight line the cup will still remain in equilibrium as there will be no unbalanced forces acting on it and the sum of the forces will remain equal to zero.

WORD COUNT OF PARAGRAPH: 176 words

(You do not need to write the word count on your blog posting, just be aware that it only includes your Physics Explanation. Please do NOT go over the word limit!)