

TEACHER'S EDITION — ERRATA SHEET



Dear Teacher:

Despite a thorough editorial, technical and proofreading process, some errors have appeared in the first editions.

Following is an errata sheet for the first edition of the *Active Physics Teacher's Edition for Transportation*. This sheet indicates errors or improvements we have identified at this point, but were unable to correct or change on the first run.

Page 48

Physics To Go, question 2, answer:

Car B has the greater stopping distances for lower initial speeds than Car A. Therefore, using stopping distances to determine safety, Car A would be considered safer.

Page 58

Background Information, second column:

velocity squared = 2 x acceleration x distance
 $v^2 = 2ad$

Page 66

For You To Do, step 8 a), answer:

$vt_y - w$ (speed of car x yellow light time) - width of intersection

Page 69

Physics To Go, question 4 and 5 answers:

Please note incorrect use of sub and superscripts

t_y t_r v^2 s^2

Page 140

Background Information, second column:

Please note incorrect use of superscripts

g is gravity (9.81 m/s²)

$E_k = 1/2mv^2$

$mgh = 1/2mv^2$

$gh = 1/2v^2$

Page 144

T 68 Physics Talk

An object at rest stays at rest, and an object in motion stays in motion unless acted upon by a net force.

Page 149

For You To Do, step 3:

$(v_2 + v_1)/2$

Page 164

In the unit kg.m/s, the dot is a raised dot representing multiplication. You may wish to replace the dot by a hyphen if this is clearer to your students; kg-m/s.

Page 179

T 87 For You To Read

If a body is acted upon by a net force, it will accelerate in the direction of the unbalanced force. The acceleration will be larger for smaller masses. The acceleration can be an increase in speed, a decrease in speed, or a change in direction.

Page 253

T 121 For You To Read, second column:

If a cannon shoots a ball horizontally with a small speed, the cannon ball may land just past the mountain.

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