Unit 2 – Module 2

Everyday examples of projectile motion

RATIONALE

Everyday examples help to bridge the gap between experiences and abstract constructs.

PRIOR KNOWLEDGE AND SKILLS

* sports activities often provide well known examples of projectile motion

CE’s AND PE’s

15. Know that the horizontal component of motion of a projectile has constant velocity

* This can be demonstrated by simultaneously launching two projectiles with different vertical components but identical horizontal components

16. Know that the vertical component of motion of a projectile is accelerating

* This can be demonstrated by simultaneously launching two projectiles with different horizontal components

17. Know the physics conventions for projectile motion problems (no air resistance, uniform gravitational field, flat, level, infinite plane)

* These conventions differ from everyday experience and actual physical situations so it may take some time to acclimate students to a physics way of thinking