Principles of Projectile Motion – Student Worksheet

Use the vocabulary below to fill in the blanks throughout this worksheet.

You may use each of the words or phrases as many or as few times as you need.

horizontal	higher	initial vertical velocity	rough
height	length	speed of release	gravity
parabolic	projectile	height of release	trajectory
less	distance	initial horizontal velocity	vertical
length	air resistance	angle of release	increases
decreases	topspin	surface to volume ratio	backspin
Air pressure	poorer		

Exercise A: Projectile Motion (Fill in the blanks).

Α	_ is considered to be ar	ny object or body	released into the air.		
All projectiles have a _	fliç	ght path. The fligh	nt path of a projectile		
is known as the	The		of a projectile		
consists of a	and	compo	nent. The		
c	omponent gives the pro	ojectile	The		
com	ponent gives the projec	ctile	For example, if		
you throw a ball straight up into the air the trajectory has only a					
component. When you	throw a ball to a friend	d that is standing 2	20 metres away from		
you the trajectory has	a co	omponent as well.			

Exercise B: Projectile Motion (Label the diagram below).

