A machine descending too flat and so losing flying speed is said to be "doing a paneake."

A machine "banking" describes the angle taken up by the planes when turning.

Balloon Terms.

Rigid—A term applied to a dirigible balloon whose envelope is provided with a stiff framework to keep it in shape.
Semi-rigid—A term applied to a dirigible balloon which maintains its shape partly by the assistance of a suitable framework.

MUSKETRY NOTES.

The use of elaborate tables for wind, movement, effective beaton zone, penetration, etc., is not recommended, but it is desirable to have a ready reference for convenient ranges, which should be memorized.

The following tables have reference to mark VII.

Effective Beaton Zone.

Range 500 yards .. E.B.Z. 7 ft. x 350 yards .. 1000 14 ft. x 180 ... 1500 22 ft. x 150

The permissible error in sighting elevation is equal to half the depth of the E.B.Z.

Trajectory Table.

Range 50			Highest	point 2.3	ft. at 300 yards
,, 100	122		",	17.8	ft. at 600 ,,
,, 150	10 ,,	TO PERSON	J. 100 199		ft. at 900

Wind.

For head and rear winds no allowance need be made for ranges under 1000 yards. For ranges exceeding 1000 yards

add or deduct from the sighting elevation 50 yards in the case of a strong wind.

For right-angle winds allow-

		()	Mild 10 miles r hour).	(20 miles per hour).	(30 miles per hour)
300 yards	The same of	-	1 ft.	2 ft.	3 ft.
500			2 ft.	4 ft.	6 ft.

For oblique winds allow half above.

Movement.

Up to 500 yards range, aim should be taken:— Per each 100 yards of range.

About 1 foot in front of a man walking.

2 feet in front of a man doubling.

" 3 feet in front of a horse trotting.

" 4 feet in front of a horse galloping.

Aim in front of an aeroplane six times its length, and at the nose of an airship.

To Raise Point of Impact.

Range 800 yar	ds	1000	6 ft.]	Increase the sight-
" 1000 ,			10 ft.	ing elevation
,, 1500 ,	Constitution S	1000	27 ft.]	100 yards.

Grouped Ranges.

		The beautiful to the second			
Range		Rifle	Field Art.	Heavy Art.	
Distant		2800 to 2000	6500 to 5000	10000 to 6500	
Long	-	2000 to 1400	5000 to 4000	6500 to 5000	
Effective		1400 to 600	4000 to 2500	5000 to 2500	
Close	1000	600 & under	2500 & under	2500 & under	