

Frontier/Modern Wargames Rules

For use with a chessboard battlefield

By Bob Cordery

Based on Joseph Morschauser's original ideas

Equipment:

- The following equipment is needed to fight battles with these rules:
 - A standard chessboard or a board marked with a grid that is at least eight grid squares by eight grid squares;
 - Items of terrain;
 - Two armies, mounted on bases that are smaller than the size of each grid square on the chessboard. The armies may not contain more than twelve Units, one of which must be a Command Unit;
 - A set of at least eight Activation Dice (*See Appendix 1*);
 - Two D6 dice (one for each player).

Terrain:

- Each item of terrain – such as woods, built-up areas, or hills – must fit within the bounds of a grid square on the chessboard and should, if the terrain is passable to troops, allow a Unit base to be placed in the grid square.
- The placement of a piece of terrain in a grid square indicates that entire grid square is filled by that type of terrain (e.g. a tree in a grid square indicates that the entire grid square is wooded; a building in a grid square indicates that the entire grid square is a built-up area).
- Where pieces of terrain are larger than an individual grid square (e.g. a hill) they must be sized in multiples of grid squares (e.g. two grid squares, three grid squares, or six grid squares) and be marked in squares in the same way as the chessboard.

Activation Dice:

- The number of Activation Dice a player may throw each turn to activate Units in their army is determined using the following formulae:
 - One Activation Dice for the Command Unit plus one Activation Dice for every three other Units in the army rounded up (e.g. A player commanding an army of eight Units will throw four Activation Dice; one for the Command Unit and three for the remaining Units).
 - As a player's army loses Units, the number of Activation Dice the player may throw will decrease in line with these formulae (e.g. If a player commanding an army loses their Command Unit, they immediately lose an Activation Dice; they will also lose an Activation Dice every time the number of non-Command Units in their army is reduced to a number that is evenly divisible by three).

Pre-battle Deployment:

- For 'one off' battles, each side must deploy its army within its deployment zone. These are the first two ranks of the middle six grid squares on the opposing sides of the chessboard (*See Appendix 2*).

- For campaign battles, each side may deploy its army within its half of the chessboard, subject the rule that no Unit may start the battle in a square that is orthogonally or diagonally adjacent to one occupied by an enemy Unit.

Unit Types:

Unit Type	Movement	Close Combat Power	Weapon Range
Infantry			
Infantry	1 grid square	4	2 grid squares
Machine Guns	1 grid square	4	3 grid squares
Mortars	1 grid square	2	4 grid squares
Infantry Guns	1 grid square	2	4 grid squares
Anti-tank Guns	1 grid square	2	4 grid squares
Cavalry			
Mounted Cavalry	2 grid squares	4	-
Dismounted Cavalry	1 grid square	3	2 grid squares
AFVs			
Armoured Cars	2 grid squares	3	3 grid squares
Tanks	1 grid squares	5	4 grid squares
Artillery			
Field Artillery	1 grid square	2	6 grid squares
Medium Artillery	1 grid square	2	10 grid squares
Command			
Command	2 grid squares	5	-
Notes:			
<ul style="list-style-type: none"> • No Unit's Close Combat Power may drop below 1 <u>regardless of other rules</u>. • Infantry, Cavalry, and Tank Units <u>may</u> move forward to replace an enemy Unit after it has been successfully attacked and destroyed by Close Combat; other Units <u>may not</u> move forward in these circumstances. • Artillery Units <u>may not</u> move during a turn in which they have fired. 			

Turn Sequence:

1. Any Artillery Unit that is within range may fire. Because artillery fire is deemed to be simultaneous, casualties are removed after all artillery fire has taken place.
2. Both sides roll a D6 die to see which side will activate its Units first. The side with the highest score activates its Units first this turn and then:
 - a. Throws its Activation Dice to determine how many Units it may activate this turn.
 - b. Selects the Units they are going to activate, and activates each of them in turn. When activated, a Unit may move or fire; it cannot do both. (N.B. Any Artillery Units that have fired at the beginning of this turn may not be activated this turn.)
 - c. Any Close Combats are resolved and casualties are removed.
3. Once the first side has activated all the Units it may activate, the second side may activate its Units.
4. Once both sides have activated their Units, the turn has ended and the next may begin.

Artillery Fire:

- Artillery fire is simultaneous; therefore if an Artillery Unit is destroyed it may still fire that turn before it is removed.
- Artillery Units may only fire once each turn, and if they fire, they may not be activated during the same turn.
- All artillery fire ranges are measured orthogonally (i.e. through the sides of grid squares and not through the corners of a grid squares. *See Appendix 3*).
- Artillery Units fire within an arc of fire that is 90 degrees forward of the direction in which they are facing (i.e. in an arc sweeping from one 45 degree diagonal line of grid squares to the other).
- Artillery fire can destroy any type of ground Unit.
- Artillery Units can fire into woods, built-up areas, and fortifications.
- Artillery Units can fire out of woods, built-up areas, and fortifications if they are in a grid square that is on the edge of the woods, built-up areas, or fortifications (i.e. the orthogonally adjacent grid square in the direction they are firing does not contain woods, built-up areas, or fortifications).
- If an entire Unit can be seen by an Artillery Unit that is firing at it, the artillery fire is direct fire; if an entire Unit cannot be seen or it is in cover (e.g. woods, built-up areas, and fortifications), the artillery fire is indirect fire.
- After nominating the target grid square the Artillery Unit is firing at, a D6 die is thrown:
 - Die score = 5 or 6: Artillery fire lands on the target grid square.
 - Die score = 1: Artillery fire lands in the grid square to the left of the target grid square (i.e. at 9 o'clock relative to the target grid square).
 - Die score = 2: Artillery fire lands in the grid square beyond the target grid square (i.e. at 12 o'clock relative to the target grid square).
 - Die score = 3: Artillery fire lands in the grid square to the right of the target grid square (i.e. at 3 o'clock relative to the target grid square).
 - Die score = 4: Artillery fire lands in the grid square before the target grid square (i.e. at 6 o'clock relative to the target grid square).

If there is a Unit in the grid square that the artillery fire lands in, that Unit is hit.

	2	
1	5/6	3
	4	

- A D6 die is then rolled to determine the effectiveness of the artillery fire upon any Unit that is in the grid square in which the artillery fire has landed.

Artillery fire is:	D6 score:	Result:
• Direct artillery fire:	5 or 6	Destroys a Command Unit.
	4, 5, or 6	Destroys any other Unit.
• Indirect artillery fire:	6	Destroys a Command Unit.
	5 or 6	Destroys any other Unit.

Movement:

- A Unit may only move once each turn and then only if it has been activated and has not fired.
- All movement is made and measured orthogonally (i.e. through the sides of grid squares and not through the corners of a grid squares)
- A Unit may change its direction of movement any number of times during its move.
- A Unit may move through grid squares that are:
 - Occupied by friendly Units;
 - Diagonally adjacent to the front, flank, or rear of an enemy Unit;
- A Unit may not end its move in the same grid square as another Unit.
- A Unit must stop as soon as it enters a grid square that is orthogonally adjacent to the front, flank or rear of enemy Unit, and both Units turn to face each other at once.
- If a Unit is being faced by an enemy Unit that is in an orthogonally adjacent grid square and the Unit has not yet been activated and moved this turn, it may move providing that:
 - It is one of the Units chosen to be activated and moved this turn and
 - It does not move into a grid square that is orthogonally adjacent to the front of another enemy Unit.

Non-Artillery Fire:

- A non-Artillery Unit may only fire once each turn and then only if it has been activated and has not moved.
- All non-artillery fire ranges are measured orthogonally (i.e. through the sides of grid squares and not through the corners of a grid squares. See *Appendix 3*).
- Armoured Car and Tank Units have an arc of fire that is 360 degrees (i.e. in an arc sweeping completely around the vehicle); all other non-Artillery Units fire within an arc of fire that is 90 degrees forward of the direction in which they are facing (i.e. in an arc sweeping from one 45 degree diagonal line of grid squares to the other).
- Only Mortar and Infantry Gun Units can fire at targets that are not in direct line-of-sight; all other non-Artillery Units may only fire at targets that are in direct line-of-sight.
- Only Mortar and Infantry Gun Units may fire over other Units in front of them; all other non-Artillery Units may not fire over other Units in front of them.
- Only Mortar, Infantry Gun, Anti-tank Gun, and Tank Units can destroy Tank Units.
- Only Mortar and Infantry Gun Units can fire into woods, built-up areas, and fortifications.
- Non-Artillery Units can fire out of woods, built-up areas, and fortifications if they are in a grid square that is on the edge of the woods, built-up areas, or fortifications (i.e. the orthogonally adjacent grid square in the direction they are firing does not contain woods, built-up areas, or fortifications).
- If an entire Unit can be seen by a non-Artillery Unit that is firing at it, the target Unit is in the open; if an entire Unit cannot be seen or it is in cover (e.g. woods, built-up areas, and fortifications), the target Unit is in cover.
- A D6 die is rolled for each non-Artillery Unit that is firing.

Target is:	D6 score – Machine Guns:	D6 score – All other non-Artillery weapons:	Result:
• In the open:	5 or 6	5 or 6	Destroys a Command Unit.
	3, 4, 5, or 6	4, 5, or 6	Destroys any other Unit.
• In cover:	6	6	Destroys a Command Unit.
	4, 5 or 6	5 or 6	Destroys any other Unit.

Close Combat:

- Close Combats are fought if, after a side's Units have been activated and moved, a Unit is being faced by an enemy Unit that is in an orthogonally adjacent grid square.
- Units do not need to be activated to take part in a Close Combat.
- If several Units move into grid squares that are orthogonally adjacent to an enemy Unit, the enemy Unit is turned to face the last Unit that moved into contact with it. This last Unit is deemed to be the attacking Unit for the purposes of resolving a Close Combat, and its Close Combat Power is used when the outcome of the Close Combat is determined. If the attacking Unit loses the ensuing Close Combat, it is the Unit that is destroyed and removed.

- When several Units attack a single enemy Unit, the defending Unit's Close Combat Power is reduced:
 - 2 attacking Units reduce the defending Unit's Close Combat Power by 1;
 - 3 attacking Units reduce the defending Unit's Close Combat Power by 2;
 - 4 attacking Units reduce the defending Unit's Close Combat Power by 3.
 This rule is subject to the proviso that no Unit's Close Combat Power may drop below 1.
- To determine the outcome of a Close Combat, each side throws a D6 die:

Result	Notes
<ul style="list-style-type: none"> • If the attacker's dice score is equal to or is less than its Close Combat Power, the defending Unit is destroyed and removed <u>at once</u>; If the attacker's dice score is greater than its Close Combat Power, the defending Unit survives the Close Combat. 	<p><i>If the attacking Unit is an Infantry, Cavalry, or Tank Unit it <u>may</u> move into the now empty grid square. If this results in the attacking Unit coming into contact with another enemy Unit, it <u>may not</u> attack the enemy Unit this turn.</i></p>
<ul style="list-style-type: none"> • If the defender's dice score is equal to or is less than its Close Combat Power, the attacking Unit is destroyed and removed <u>at once</u>; If the defender's dice score is greater than its Close Combat Power, the attacking Unit survives the Close Combat. 	<p><i>The defending Unit <u>may not</u> move into the now empty grid square.</i></p>
<ul style="list-style-type: none"> • If one Unit is destroyed, the surviving Unit or Units have won the Close Combat. 	
<ul style="list-style-type: none"> • If neither Unit is destroyed, the Close Combat ends as a draw. The attacking Unit <u>must</u> withdraw into an orthogonally or diagonally adjacent empty grid square that is not orthogonally adjacent to a grid square occupied by an enemy Unit. If it is unable to do so, it is destroyed. 	
<ul style="list-style-type: none"> • If both Units are destroyed, the Close Combat has resulted in mutual annihilation. 	

Special Rules:

1. Hills:

- Units may only move up or down one hill contour each turn.
- A Unit that is attacking an enemy Unit that is one hill contour above it reduces its Close Combat Power by 1.

2. Roads:

- Each grid square of movement made along a road by a Unit uses up only half a grid square of movement.
- If a Unit moves along a road and then off the road during the same turn (or *vice versa*), any unused half-grid squares of movement are lost.
- For movement, built-up areas count as roads.

3. Rivers:

- Rivers may only be crossed by bridge or at a shallow spot (ford).
- Units that enter river grid squares where there is no bridge or a shallow spot (ford) are destroyed.
- When crossing a shallow spot (ford) in a river, a Unit moves into the river on turn A and stops. It remains in the river for turn B, and it then moves again on turn C.
- Units that are fording rivers (i.e. are in turn B of the above sequence) may not fire.
- A Unit that is in a river grid square and is attacking an enemy Unit that is in an orthogonally adjacent grid square reduces its Close Combat Power by 1.

4. Woods:

- Units attacking enemy Units that are in woods reduce their Close Combat Power by 1, even if the attacking Unit is also in the woods.

5. Built-up Areas and Fortifications:

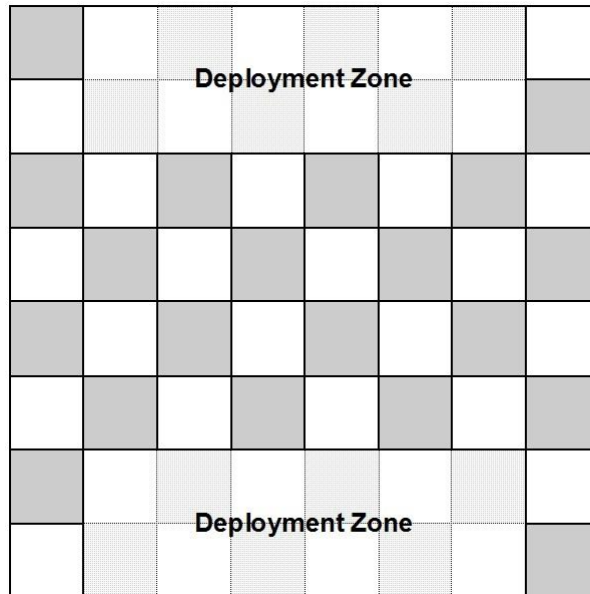
- Units attacking enemy Units that are in built-up areas or fortifications reduce their Close Combat Power by 2, even if the attacking Unit is also in the built-up area or fortification.

Appendix 1: Activation Dice

- The Activation Dice are D6 dice with the faces marked as follows:
 - One face marked with '0';
 - Two faces marked with '1';
 - Two faces marked with '2';
 - One face marked with '3'.
- In the absence of a set of such dice, players could use ordinary D6 dice, each score being divided by two and rounded down:
 - 1 = 0;
 - 2 = 1;
 - 3 = 1;
 - 4 = 2;
 - 5 = 2;
 - 6 = 3.

It is important to note that, when using ordinary D6 dice as Activation Dice, the dice scores are not aggregated before being divided by two; each die's score must be separately divided by two and then the resultant scores are aggregated to determine how many Units a player may move.

Appendix 2: Pre-battle deployment zones



Appendix 3: Measuring weapon ranges orthogonally

- The following diagram shows the way to measure weapon ranges orthogonally.

10	9	8	7	8	9	10	
9	8	7	6	7	8	9	10
8	7	6	5	6	7	8	9
7	6	5	4	5	6	7	8
6	5	4	3	4	5	6	
	4	3	2	3	4		
		2	1	2			
			Firing Unit				