

**Fraenkel 1922,
Skolem 1922**

Stated: *Replacement*

Zermelo 1908 (Zermelo set theory)

Sets

*Extensionality (sets), Elementary sets, Union,
Power set, Infinity, Separation, Choice*

Pairing (unordered)
Separation, Choice

Pairing (ordered)
Function existence axioms
Limitation of size
(implies Replacement, Choice)

Von Neumann 1925, 1928

Functions, Arguments

*Extensionality (functions), Pairing (ordered),
Function existence axioms, Union, Power set,
Infinity, Limitation of size*
Stated but not adopted: *Regularity*

Limitation of size
Replacement
Von Neumann choice

Von Neumann 1929

Functions, Arguments

*Extensionality (functions), Pairing (ordered),
Function existence axioms, Union, Power set,
Infinity, Replacement, Von Neumann choice*
Proved relatively consistent: *Regularity*

Pairing (ordered)
Function existence axioms
Pairing (unordered)
Class existence axioms
Separation, Regularity

**Bernays 1931 [letter to Gödel],
1937, 1941 [axioms published]**

Classes, Sets (two sorts)

*Extensionality (classes), Pairing (unordered),
Class existence axioms, Union, Power set,
Infinity, Separation, Replacement, Von
Neumann choice, Regularity*

Separation
Von Neumann choice
Global choice

Gödel 1940 (NBG)

Classes, Sets (one sort)

*Extensionality (classes), Pairing (unordered),
Class existence axioms, Union, Power
set, Infinity, Replacement, Global choice,
Regularity*

Legend:

Approach
Primitives
Axioms