

Zermelo 1908 (Zermelo set theory)

Sets

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

Fraenkel 1922,

Skolem 1922

Stated: *Replacement*

Elementary sets
Separation, Choice

Function existence axioms
Limitation of size
(implies Replacement)

Limitation of size
Replacement
Von Neumann choice

Function existence axioms
Pairing, Class existence axioms
Separation, Regularity

Separation
Von Neumann choice
global choice

Von Neumann 1925, 1928

Functions, Arguments

Extensionality (functions), Function existence axioms, Union, Power set, Infinity, Limitation of size

Stated but not adopted: *Regularity*

Von Neumann 1929

Functions, Arguments

Extensionality (functions), Function existence axioms, Union, Power set, Infinity, Replacement, Von Neumann choice

Proved relatively consistent: *Regularity*

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

Classes, Sets (two sorts)

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

Gödel 1940 (NBG)

Classes, Sets (one sort)

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

Legend:

Approach
Primitives
Axioms