```
                              Supervised Learning
                                      │
                                      ▼
                                  Datasets
                                      │
                                      ▼
                              Direct Products
                            ╱               ╲
                           ▼                 ▼
                   Natural Families       Natural Order
                      │        ╲               │
                      ▼         ╲              ▼
                  Families       ▼         Natural Numbers
                 ╱    │       Natural Numbers    │
                ╱     ▼                ╲         ▼
               ╱  Set Specification     ╲─────► Functions ◄─────┐
              ▼      ╱        ╲                     │           │
         Set Inclusion        ╲                    ▼           │
              │                 ▼                Relations      │
              ▼             Sentences               │          │
         Set Equality          │                    ▼          │
            ╱    ╲             │              Ordered Pairs     │
           ▼      ╲            ▼                    ╱           │
       Identity    ╲────────► Sets ◄──────────────╱            │
            │               ╱    ╲                              │
            ▼              ▼       ▼                            │
          Objects      Objects                                 │
```

Supervised Learning → Datasets

Datasets → Direct Products

Direct Products → Natural Families

Direct Products → Natural Order

Natural Families → Families

Natural Families → Natural Numbers

Natural Order → Natural Numbers

Families → Set Inclusion

Families → Set Specification

Families → Functions

Natural Numbers → Functions

Supervised Learning → Functions

Set Specification → Set Inclusion

Set Specification → Sentences

Functions → Relations

Set Inclusion → Set Equality

Relations → Ordered Pairs

Set Equality → Identity

Set Equality → Sets

Sentences → Sets

Ordered Pairs → Sets

Identity → Objects

Sets → Objects