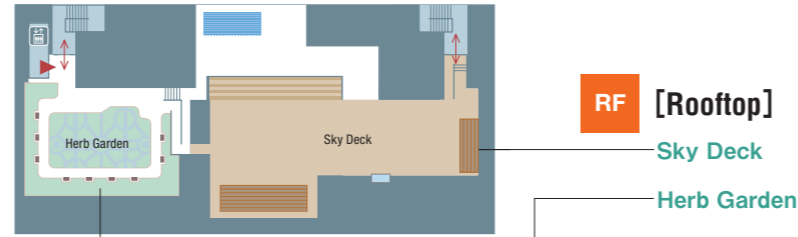


Animals of the Earth



- 1. Peak of Evolution : Large Wild Mammals**
 - 1 Peak of evolution : large wild mammals
- 2. Way of Survival**
 - 2 Way of survival
- 3. Mammals in Savanna**
 - 3 Mammals in savanna
- 4. Our Evolutionary Kindred**
 - 4 Our evolutionary kindred
- 5. On the Brink of Extinction**
 - 5 On the brink of extinction
- 6. Birds of Diverse Appearances**
 - 6 Birds of diverse appearances



RF [Rooftop]

Sky Deck

Herb Garden

- Toilets
- Accessible toilets/ Baby changing stations
- Accessible toilets
- Ostomate toilets
- Drinking fountain
- Elevator *Accessible
- Discovery pocket
- Nursing room

2F **Investigation Technology for the Earth**

A. GED (Global Environmental Detector)

- 3 GED (Global environmental detector)

B. The Science to Investigate the Earth

- 1 Investigate the ground
- 2 Investigate interior of the earth

Progress in Science and Technology **Partially Closed**

1. Introduction to the History of Science and Technology

- 1 Introduction to the history of science and technology
- 2 Mining in the Edo period
- 3 Development and popularization of arithmetic
- 4 Astronomy and surveying
- 5 Transition from herbalism to natural history
- 6 Medicine in the Edo period
- 7 Skills of the masters

4. Results of Modernization

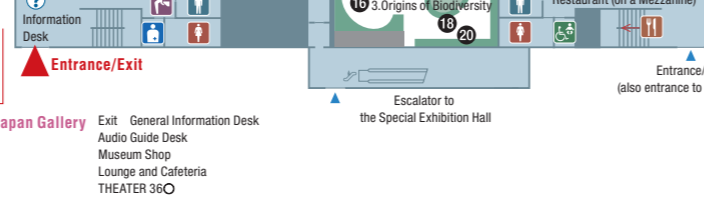
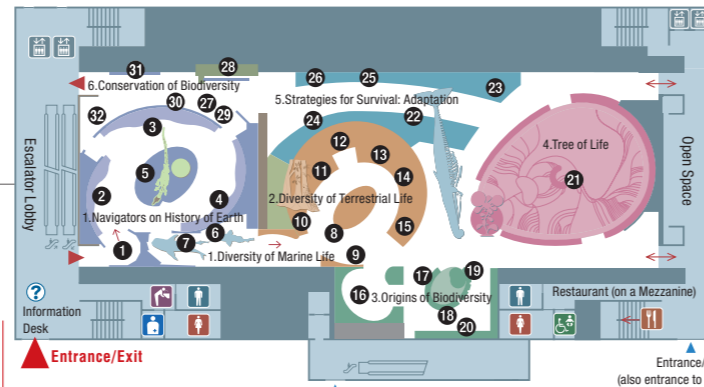
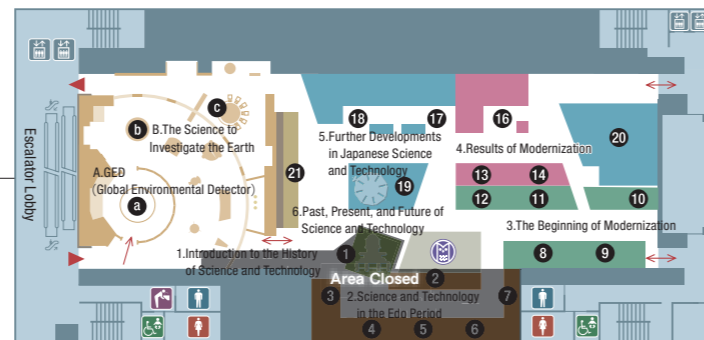
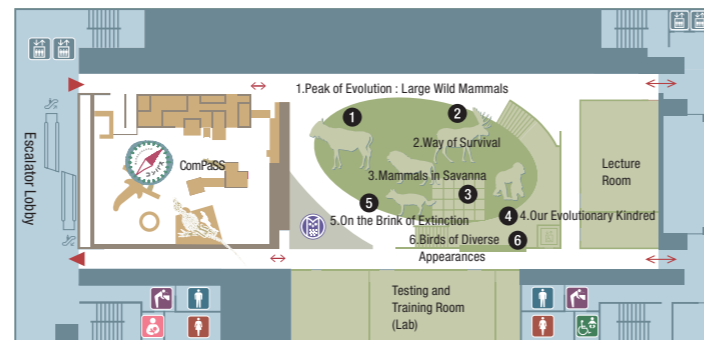
- 13 Inventions and creations by Japanese people
- 14 Birth of the car manufacturing industry
- 15 New technology: picture transmission
- 17 Mechanical calculators
- 18 Computers
- 19 Space development in Japan
- 20 Ocean Research in Japan

5. Further Developments in Japanese Science and Technology

- 17 Mechanical calculators
- 18 Computers
- 19 Space development in Japan
- 20 Ocean Research in Japan

6. Past, Present, and Future of Science and Technology

- 21 Past, present, and future of science and technology



1F **Navigators on History of Earth**

1. Navigators on History of Earth

- 1 All comprise atoms
- 2 History of the universe
- 3 History of life
- 4 History of humankind
- 5 Time line stage

Biodiversity

1. Diversity of Marine Life

- 6 Photosynthetic ecosystem
- 7 Chemical synthetic ecosystem
- 8 Various landscapes on earth
- 9 The linkage of life
- 10 Mangrove forests
- 11 Tropical rainforests
- 12 Wetlands
- 13 Temperate forests
- 14 Alpine regions
- 15 Deserts

3. Origins of Biodiversity

- 16 What is life?
- 17 Species of life
- 18 Factors of diversification : evolution
- 19 Factors of diversification : speciation
- 20 Examples of diversification

4. Tree of Life

- 2 Tree of life
- 21 Size factors
- 22 Challenges of extreme temperature and humidity
- 23 Seeking for nutrients
- 24 Succession of life
- 25 Symbiosis and parasitism

6. Conservation of Biodiversity

- 26 How much do we really know?
- 27 Pursuit of biodiversity
- 28 Red list
- 29 Inter-specific network around Japanese crested ibis
- 30 Recovery of endangered species
- 31 Networks on conservation of biodiversity



M2F **Great Japanese Figures in Science and Technology**

This exhibit can be easily accessed by stairs located in front of the Information Desk on the 1st floor or by escalator from the 2nd floor.

Global Gallery Floor **MAP**



Evolution of Life
—Exploring the Mysteries of Dinosaur Evolution—

1. Exploring the Mysteries of Dinosaur Evolution

- 1 Evolution of saurischian dinosaurs
- 2 Evolution of ornithischian dinosaurs
- 3 The last day of the Mesozoic

The Special Exhibition Hall

Evolution of Life
—From the Earth's Origin through Human Existence—



1. A Stroll Through 4.6 Billion Years of History

- 1 A stroll through 4.6 billion years of history
- 2 Geological Samples from the Planet Earth
- 3 Biotic Response to Global Environmental Change
- 4 Explosive evolution of life in the sea

5. Plants and Animals invade the Land

- 14 First steps on the land
- 15 Greening the land
- 16 Origin of the mammals
- 17 Mesozoic mammals
- 18 Early mammals lived in forests
- 19 Early mammals lived in grasslands and arid lands
- 20 Mammals of island continents
- 21 Graviportal mammals
- 22 Carnivorous mammals

8. Flying tetrapods

- 29 Flying tetrapods

9. Human Evolution

- 30 Primate evolution
- 31 The evolution of the Australopithecines and contemporary species
- 32 The evolution of early Homo
- 33 Reconstructing ancient humans
- 34 The evolution and worldwide expansion of modern humans
- 35 The expansion of modern humans: out of Africa again
- 36 The expansion of modern humans: into Eurasia
- 37 The expansion of modern humans: into Oceania
- 38 The expansion of modern humans: into northern Eurasia
- 39 The expansion of modern humans: into the Americas

2. Geological Samples from the Planet Earth

- 4 Records of global environmental change
- 5 Mass extinctions
- 6 Geosphere-biosphere interactions
- 7 Microfossils

7. Secondary adaptation of tetrapods to life in water.

- 23 Precambrian microorganisms
- 24 Vendian life
- 25 Strange animals in Burgess Shale and Chengjiang Faunas
- 26 Paleozoic invertebrates
- 27 Trilobites in the paleozoic sea
- 28 Evolution and success of fishes
- 29 Precambrian microorganisms
- 30 Secondary adaptation of tetrapods to life in water
- 31 The forerunners of aquatic mammals
- 32 Convergence to life in water
- 33 A pioneer in new food resources.
- 34 A gigantic marine reptile
- 35 Diving birds

Exploring the Structure of Nature



0. Japanese Scientists

- 3 Japanese Nobel Prize laureates in physics, chemistry, and physiology or medicine
- 4 Let's take a look at celestial bodies
- 5 Japanese builders of science with items from our collection

2. Exploring the Universe

- 7 Telescopes: our eyes to investigate the universe
- 8 Let's take a look at celestial bodies
- 9 Hierarchical structure of the universe
- 10 The solar system
- 11 Fixed stars, nebulae, and star clusters
- 12 Galaxies and clusters of galaxies
- 13 Superclusters of galaxies and the large-scale structure of the universe
- 14 The expansion of the universe and its origin

3. Exploring the World of Matter

- 15 Hierarchical structure of matter
- 16 Periodic table: the diversity of elements
- 17 Shape of molecules: a variety of matter
- 18 Exploring the nanoworld
- 19 Exploring the ultimate formation of matter
- 20 Macroscopic properties and microscopic properties
- 21 Functional materials
- 22 Striving for environmentally friendly chemistry

1. Exploring the Laws of Nature

- 1 Exploring the world of elementary particles KEKB accelerator & Belle experiment
- 2 Measurements
- 3 Measuring electricity and magnetism
- 4 Measuring temperature
- 5 Thermal radiation and energy
- 6 Speed of light
- 7 Gravity

