

Animals of the Earth



1. Peak of Evolution : Large Wild Mammals

- Peak of evolution : large wild mammals

2. Way of Survival

- Way of survival

3. Mammals in Savanna

- Mammals in savanna

4. Our Evolutionary Kindred

- Our evolutionary kindred

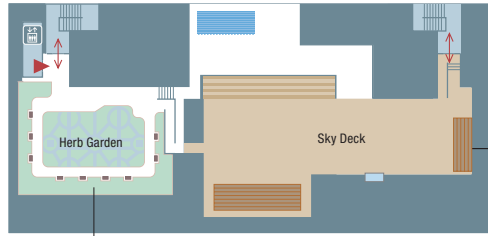
5. On the Brink of Extinction

- On the brink of extinction

6. Birds of Diverse Appearances

- Birds of diverse appearances

RF



RF [Rooftop]

Sky Deck

Herb Garden



Toilets



Accessible toilets/
Baby changing stations



Accessible toilets



Ostomate toilets



Drinking fountain



Elevator *Accessible



Discovery pocket



Nursing room

Global Gallery

Floor

MAP

Evolution of Life

—Exploring the Mysteries of Dinosaur Evolution—



B1F

1. Exploring the Mysteries of Dinosaur Evolution

- Evolution of saurischian dinosaurs
- Evolution of ornithischian dinosaurs
- The last day of the Mesozoic

The Special Exhibition Hall

Evolution of Life

—From the Earth's Origin through Human Existence—



B2F

1. A Stroll Through 4.6 Billion Years of History

- A stroll through 4.6 billion years of history

2. Geological Samples from the Planet Earth

- Rocks and minerals
- Fossils

3. Biotic Response to Global Environmental Change

- Records of global environmental change
- Mass extinctions
- Geosphere-biosphere interactions
- Microfossils

4. Explosive evolution of life in the sea

- Precambrian microorganisms
- Vendian life
- Strange animals in Burgess Shale and Chengjiang Faunas
- Paleozoic invertebrates
- Trilobites in the paleozoic sea
- Evolution and success of fishes

5. Plants and Animals invade the Land

- First steps on the land
- Greening the land
- Origin of the mammals
- Mesozoic mammals
- Early mammals lived in forests
- Early mammals lived in grasslands and arid lands
- Mammals of island continents
- Graviportal mammals
- Carnivorous mammals

7. Secondary adaptation of tetrapods to life in water.

- Secondary adaptation of tetrapods to life in water
- The forerunners of aquatic mammals
- Convergence to life in water
- A pioneer in new food resources.
- A gigantic marine reptile
- Diving birds

8. Flying tetrapods

- Flying tetrapods

9. Human Evolution

- Primate evolution
- The evolution of the Australopithecines and contemporary species
- The evolution of early Homo
- Reconstructing ancient humans
- The evolution and worldwide expansion of modern humans
- The expansion of modern humans: out of Africa again
- The expansion of modern humans: into Eurasia
- The expansion of modern humans: into Oceania
- The expansion of modern humans: into northern Eurasia
- The expansion of modern humans: Into the Americas

2F

Investigation Technology for the Earth

A. GED

(Global Environmental Detector)

③ GED

(Global environmental detector)

B. The Science to Investigate the Earth

- Investigate the ground
- Investigate interior of the earth

Progress in Science and Technology

Partially Closed

1. Introduction to the History of Science and Technology

- Introduction to the history of science and technology

2. Science and Technology in the Edo Period

- Mining in the Edo period
- Development and popularization of arithmetic
- Astronomy and surveying
- Transition from herbalism to natural history
- Medicine in the Edo period
- Skills of the masters

3. The Beginning of Modernization

- Standardization of criteria and systems
- Cultivating human resources for modernization
- Spread of modern science and technology
- Introduction of machine tools
- Introduction of electrical power systems

4. Results of Modernization

- Inventions and creations by Japanese people
- Birth of the car manufacturing industry
- New technology: picture transmission

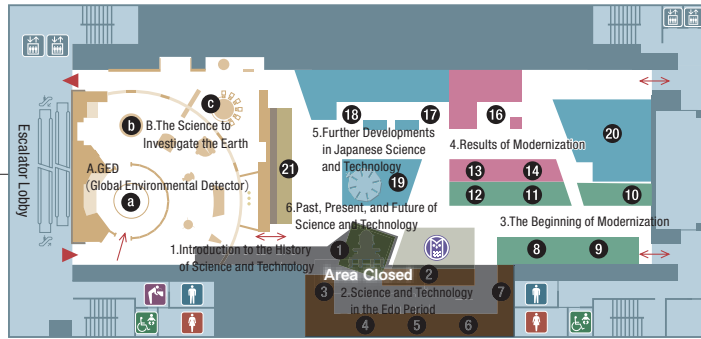
5. Further Developments in Japanese Science and Technology

- Mechanical calculators
- Computers
- Space development in Japan
- Ocean Research in Japan

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

- Past, present, and future of science and technology

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Navigators on History of Earth

1. Navigators on History of Earth

- All comprise atoms
- History of the universe
- History of life
- History of humankind
- Time line stage

1. Diversity of Marine Life

- Photosynthetic ecosystem
- Chemical synthetic ecosystem

2. Diversity of Terrestrial Life

- Various landscapes on earth
- The linkage of life
- Mangrove forests
- Tropical rainforests
- Wetlands
- Temperate forests
- Alpine regions
- Deserts

3. Origins of Biodiversity

- What is life?
- Species of life
- Factors of diversification : evolution
- Factors of diversification : speciation
- Examples of diversification

4. Tree of Life

- Tree of life

5. Strategies for Survival: Adaptation

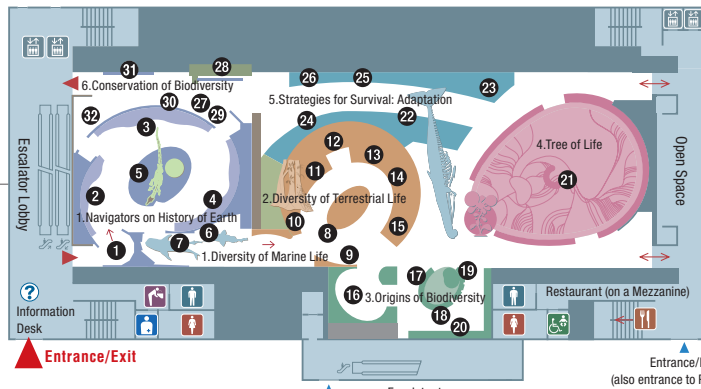
- Size factors
- Challenges of extreme temperature and humidity
- Seeking for nutrients
- Succession of life
- Symbiosis and parasitism

6. Conservation of Biodiversity

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



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M2F

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.

Exploring the Structure of Nature

Closed



B3F

0. Japanese Scientists

- Japanese Nobel Prize laureates in physics, chemistry, and physiology or medicine
- Japanese builders of science with items from our collection

1. Exploring the Laws of Nature

- Exploring the world of elementary particles KKB accelerator & Belle experiment
- Measurements
- Measuring electricity and magnetism
- Measuring temperature
- Thermal radiation and energy
- Speed of light
- Gravity

2. Exploring the Universe

- Telescopes: our eyes to investigate the universe
- Let's take a look at celestial bodies
- Hierarchical structure of the universe
- The solar system and star clusters
- Galaxies and clusters of galaxies
- Superclusters of galaxies and the large-scale structure of the universe
- The expansion of the universe and its origin

3. Exploring the World of Matter

- Hierarchical structure of matter
- Periodic table: the diversity of elements
- Shape of molecules: a variety of matter
- Exploring the nanoworld
- Exploring the ultimate formation of matter
- Macroscopic properties and microscopic properties
- Functional materials
- Striving for environmentally friendly chemistry