

1 EARTH SCIENCE: THE WORLD BELOW

See how geologists are using technology to learn about our planet by studying its crust. This edition of SCIENCE SCREEN REPORT FOR KIDS explains continental drifts, the forces that move continental plates, how ocean floors and mountain ranges were formed, causes of earthquakes and volcanic explosions, and the theory that earth's magnetic field is produced by storms within a sea of molten lava at the earth's core. 15:11

2 PHYSICS: GRAVITY AND FORCES

This appealing issue demonstrates the forces that prevent a racer from going faster, break the plummet of a free-falling parachutist, or allow an airplane to fly. Using examples featuring competition cyclists, skydivers, and wind tunnel testing, the program demonstrates the concepts of balanced and unbalanced forces, and the influence of air resistance, friction, gravity, and lift on competition cyclists, skydivers, and wind tunnel testing. 14:23

3 UNDERSTANDING ANIMAL BEHAVIOR

In this scientific study of animal behavior we visit a primate research center and a zoo to learn how researchers are studying the extent of animal consciousness and intelligence. This program explores the processes they follow by observing, recording, and interpreting the fascinating and sometimes amusing reactions of chimps, monkeys, fish, and birds as they confront their reflections in mirrors. 14:48

4 ECOLOGY: GIVING BACK THE LAND

In the early nineteen hundreds, the practice of strip mining to supply minerals to manufacturing industries left land in many parts of the world barren, scarred, and unable to sustain life. Now science is finding ways to correct the ecological mistakes of the past. This program looks at experiments in land reclamation, including bioremediation trials that use plants and bacteria to restore the terrain. 14:42

5 TECHNOLOGY: SCIENCE IN THE THIRD WORLD

In remote areas of the world, lack of information holds people back from improving their lives. After seeing this program, students will appreciate how technological alliances and linkages to education and resources help people in remote areas to gain knowledge. They will also understand how science and technology are helping people to develop twenty-first century skills to advance themselves and their countries. 13:47

6 BIOLOGY: BLOOD — VITAL TO OUR EXISTENCE

This report looks at the composition of blood and explores the heart and the circulatory system. Animated graphics demonstrate the pumping of the heart. See how red blood cells are manufactured in the bone marrow and how plasma and red blood cells carry oxygen and nutrients to cells in the body. Learn how red blood cells remove carbon dioxide and how white blood cells protect us. The program discusses blood typing, transfusions, and scientific advances that will provide synthetic blood for emergency use in the future. 13:39

7/8 ENVIRONMENT: CONTINENT OF ICE AND SNOW

Antarctica, the coldest, iciest, windiest, and driest continent on the globe, attracts scientists from all over the world. Trek to the South Pole to find out what an international enclave of biologists, geologists, archaeologists, atmospheric scientists, and climatologists hope to discover at the bottom of the world; and how they meet the challenges of working in this harsh and hazardous environment. 25:45