

**SCIENCE**

# SEAHOUSE

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1:30 CH 10	2:50 CH 10	2:45 CH 8	2:45 CH 8	11:15 CH 10

SEAHOUSE introduces children to the science of the sea. The series is designed to show children marine plants and animals in the world's oceans, to create an opportunity for children and adults to discuss the characteristics of living things, and to encourage a sense of responsibility in protecting marine plants and animals. It illustrates the complexity and diversity of marine life. Two programs are combined to make one lesson each week.

**Grades Pre-K - 6 Teacher Guide Available 10-Minute Lessons**

## **Breakfast, Lunch and Dinner/The Nursery**

Week of 10/23, 4/2

All sea animals need food and are part of simple food chains. Animals use the edge of the sea for a nursery.

## **Reefs/First Star**

Week of 10/30, 4/23

Coral reefs are described, compared and contrasted; some animals inhabit the reef. Starfish, sea urchins and sea cucumbers are described.

## **Something Fishy/Where Did They Go?**

Week of 11/6, 4/30

A description and characteristics of fish and how they move is presented. Animal camouflage and its purpose make up this program.

## **Partners/The Cleaning Station**

Week of 11/13, 5/7

Describes how the clownfish and anemone help each other. Cleaner fish groom others and receive protection from them.

## **Breathing Underwater Is It Safe?**

Week of 11/27, 5/14

Methods of breathing underwater are described. Sea animals have a variety of ways to protect themselves.

## **Seeing Underwater/Deep and Dark**

Week of 12/4, 5/21

Underwater animals have eyes and can see. The availability of light underwater determines what kinds of animals live at different depths.

## **Colors and Patterns/The Moving Island**

Week of 12/11, 5/28

Fish may have special designs and colors to help them avoid danger. Different kinds of islands and especially the barrier islands of the East coast are dynamic systems.

## **Forests/Little Wanderers**

Week of 1/1, 6/4

Helps students understand the similarities between coral reefs and rain forests. Plankton is the basis for aquatic food chains and a food source for many ocean animals.

## **Crabs, Lobsters and Shrimp/Shark!**

Week of 1/8

Interesting characteristics of these crustaceans are discussed. The realities, myths, fables and unjustified fears of sharks are portrayed.

## **The Dolphin/The Manatee**

Week of 1/15

These animals, along with their close relatives, the whales, are air-breathing, warm-blooded animals, like people.

## **Amazing Rays/Birds of the Sea**

Week of 1/22

The complexity and variety of rays and sea birds show many adaptations.

# SEAHOUSE (Continued)

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
1:30 CH 10	2:50 CH 10	2:45 CH 8	2:45 CH 8	11:15 CH 10

## Sea Stones (Mollusks) /Desert in the Sea

Week of 1/29

After arthropods, mollusks are the most varied and widely distributed members of the animal kingdom.

The desert in the sea is abundant with life and plays an active part in the marine community.

## Sea Siphons (Tunicates)/

### Sponges

Week of 2/5

Though resembling sponges, tunicates are deceptively complex animals.

Sponges are simple metazoans that exhibit some degree of specialization.

## Tides/

### A Drop to Drink

Week of 2/12

Gravity, tides and coastal currents are discussed and their effect on the coastal zone, the area rich in marine life.

A most valuable resource, water, surrounds living organisms and supports life. The water cycle and care of this natural resource is important to life.

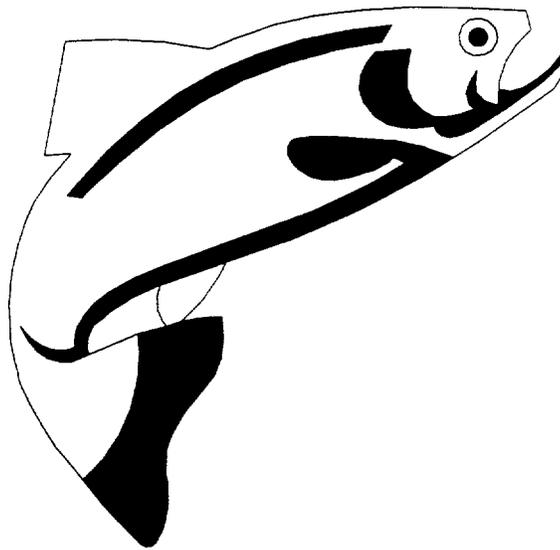
## The Girl and the Grouper/

### You, Me and the Sea

Week of 2/19

Comparing ability to breathe, movement, sight and securing food in the water, the grouper has greater ease in its own habitat.

If we wish to continue using the sea for transportation, recreation and as a source of food, we shall have to take better care of it. Indeed, we and the sea are vitally intertwined.



# SCIENCE IS ELEMENTARY

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
-----	10:50 CH 8	10:35 CH 10	12:30 CH 10	10:45 CH 10

Appealing to the curiosities of kindergartners through second graders, this lively series guides children on investigations of the phenomena of life, physics, and the earth as no textbook lesson can, using the learning tools of exploration, concept development, and application.

**Grades K - 2 Teacher Guide Available 15-Minute Lessons**

## Plants

Weeks of 10/9, 1/29, 5/14

Defines what a plant is; looks at how it grows and changes and its relationships with the environment.

## Animals

Weeks of 10/16, 2/5, 5/21

Examines animal groups, how animals grow, and their importance to us.

## Water

Weeks of 10/23, 2/12, 5/28

Considers the properties of water, why things float and sink, and how we use water.

## Light & Shadows

Weeks of 10/30, 2/19, 6/4

Examines how light creates and alters shadows, and our feelings about shadows.

## Sound

Weeks of 11/16, 2/26

Looks at what sound is and how vibrations can make music.



## Tools & Work

Weeks of 11/13, 3/5

Considers how simple machines move and make our work easier.

## Magnets

Weeks of 11/27, 3/12

Examines basic properties of magnets and how they work.

## Air

Weeks of 12/4, 3/19

Looks at the atmosphere, its properties, and its usefulness to us.

## Weather & the Seasons

Weeks of 12/11, 3/26

Considers different kinds of weather, how it changes through the seasons, and how we can measure the wind and rain.

## Soil & Rocks

Weeks of 1/1, 4/2

Examines different kinds of rocks, how soil is formed, and our uses of these resources.

# THE CARROT HIGHWAY

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
-----	10:50 CH 8	10:35 CH 10	12:30 CH 10	10:45 CH 10

A program taking students on an amazing journey with people who use science to improve our lives, through the fascinating story of the ever present carrot. A varied and humorous format introduces life science content such as the characteristics and life cycles of organisms, genetic similarities between parents and offspring, and the benefits of variation in nature. Brief interviews and field trips provide connections between science and technology.

**Grade Levels K- 4    Teacher Guide Available    15 - Minute Lessons**

## History of the Carrot

Weeks of 9/18, 1/8, 4/23

This program traces the evolution of the carrot, starting with its discovery 1000 years ago in Southern Asia to the discovery that orange carrots taste best. Also discussed are types of carrots; carrots life cycles; vernalization to hasten plant development; and various vitamins and minerals in carrots.

## Growing Carrots

Weeks of 9/25, 1/15, 4/30

Scientists demonstrate in the laboratory the scientific process for reproducing carrots with desirable characteristics; a visit to a carrot seed company to illustrate pollination of seeds, harvesting and packaging of seeds. A trip to California explores why this state is conducive to carrot growing.

## Harvesting Carrots

Weeks of 10/2, 1/22, 5/7

Carrots are harvested using machines and team work. Carrot Highway concludes with a look at packaging routes and operations, and the many ways carrots are packaged for human consumption.

# CONCEPTS IN NATURE

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:10 CH 10	11:10 CH 10	9:50 CH 10	12:15 CH 10	2:45 CH 8

This series provides an in-depth look at fascinating wildlife. Students will gain an understanding of the diversity of animals and plants and the impact of people on the environment.

Grades K - 6      15 - Minute Lessons

## Animal Families

Weeks of 9/18, 2/5

Most higher animals have a family structure that play a vital role in the survival of its young, but the structure can vary widely.

## Where Animals Live

Weeks of 9/25, 2/12

Shelters provide places to sleep, to feel safe, to stay out of bad weather and to care for young. Animals use an array of shelters, ranging from burrows and caves to lodges and nests.

## Animal

### Communication

Weeks of 10/2, 2/19

Through vocalizations, body language and even odors, animals exchange information about vital matters such as food, danger and reproduction.

## Animal Predators And The Balance Of Nature

Weeks of 10/9, 2/26

This program uses incredible wildlife photography to show various types of predators and explains the complex relationships between predator, prey and nature.

## Why Animals Love Geography

Weeks of 10/16, 3/5

This program helps students understand why various animals live where they do, and how they adapt to their environment.

## Adapting To Changes In Nature

Weeks of 10/23, 3/12

This program explains how animals cope with both the routine and unpredictable changes in nature. The role that humans play in creating change is questioned and analyzed from several points of view.

## Why Do Animals Look The Way They Do?

Weeks of 10/30, 3/19

Students are given a closer look at such animals as elephants, hummingbirds, barn owls, porcupines, and walking sticks through close-up footage, and learn that even the most unusual creature has a purpose to its design.

## Instincts In Animals

Weeks of 11/6, 3/26

This program provides an easy-to-understand explanation of what instincts are, and describes how instincts direct animals through their lives.

# MATERIALS WE NEED

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
12:30 Ch 8	9:00 Ch 8	9:50 Ch 8	2:30 Ch 8	11:00 Ch 10

These programs explore everyday materials, their properties, their origins, how they are made and some unconventional uses. Children see how materials are mixed or changed or chosen for a particular task . Programs conclude with classes on screen using materials to solve a problem or meet a human need. Viewing students are motivated to design and make something of their own.

**Grades 1 - 3**

**Teacher Guide Available**

**15 Minute Lessons**

## Paper

Weeks of 1/22

It can be folded; it can be torn; it can soak things up, and can be very strong. It's paper ! Paper may appear to be flimsy, but just watch as we show you an elephant supported on a cardboard platform!

## Clay

Weeks of 1/29

How does clay change from muck to beautiful bowls , plates, models, or even houses? We use objects made of clay everyday. We watch a potter working on a wheel to make a pet feeding bowl, and see how it is fired to make it hard.

## Fabric

Weeks of 2/5

What is fabric made from? Zoom into your clothes with a microscope to see how they are made from tiny fibers, too small to see with the naked eye. These fibers come from a variety of raw materials, each stranger than the last!

## Plastic

Weeks of 2/12

Plastic, plastic everywhere! Did you know that plastic is made from oil? To find out how a dirty liquid can make something fun and colorful, we follow the oil to the refinery, where it is turned into plastic granules into injection molds.

# TAKE A LOOK

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00 CH 10	11:50 CH 8	12:50 CH 8	9:15 CH10	-----

This series is designed to teach principles of science with a hands-on approach. Children are encouraged to find out more about the world around them by asking questions, seeking solutions, and experimenting with science while enjoying it at the same time.

## Grades 2 - 5 Teacher Guide Available 10-Minute Lessons

### Plants

Weeks of 9/18, 2/26

The four parts of a plant and their functions.

### Flowers & Seeds

Weeks of 9/25, 3/5

Flowers produce seeds which are used to grow new plants.

### Growing Things

Weeks of 10/2, 3/12

Plants have different ways of reproducing themselves.

### Insects

Weeks of 10/9, 3/19

The life cycle of bees; how honey is made.

### Eggs

Weeks of 10/16, 3/26

The main parts of an egg and their functions.

### Birds

Weeks of 10/23, 4/2

The shape of a bird's beak is suited to the food it eats.

### Flight

Week of 10/30, 4/23

Not all birds can fly. Those which do, have special adaptations for flight.

### Seasons

Week of 11/6, 4/30

Seasonal changes are observed in both animal and plant life.

### Playground Science

Week of 11/13, 5/7

Examines what gravity is, how it affects us and everything on earth, including air and water.

### Boats

Week of 11/27, 5/14

The basic principles of floatation are demonstrated as they pertain to objects and boats.

### Mixtures

Week of 12/4, 5/21

Some mixtures dissolve in water, others appear to dissolve and some do not mix at all.

### The Sun & Other Stars

Week of 12/11, 5/28

Surprising facts about the sun and other stars.

### The Moon

Week of 1/1, 6/4

The four phases of the moon are explained and demonstrated.

### Rocks

Week of 1/8

The three basic kinds of rocks and how they are formed.

### Crystals

Week of 1/15

Crystals are found all over the house (salt, sugar, mothballs); how they are different from other solids.

### Fossils

Week of 1/22

What fossils are; where they are found.

### Wind

Week of 1/29

How wind is formed; how it can be helpful or harmful.

### Rain

Week of 2/5

The water cycle; what the terms evaporation, vapor and condensation mean.

### Waste

Week of 2/12

How different types of garbage can be recycled.

### Energy

Week of 2/19

Many different forms of energy are demonstrated.

# PHYSICAL SCIENCE

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:35 CH 8	12:40 CH 10	9:15 CH 8	10:20 CH 8	1:55 Ch 10

This program presents a detailed review of the important concepts in Physical Science relating to matter and basic chemistry. Each video is followed by a 10 question quiz.

**Grades 5 - 8    Teacher Guides Available    20 Minute Lessons**

## Properties of Matter

Weeks of 9/18, 1/1, 3/26

This video explores the many different characteristics of matter including chemical properties. It also examines some physical properties including color, odor, texture, and shape through beautiful visual images which students can easily understand.

## Phases of Matter

Weeks of 9/25, 1/8, 4/2

This video closely examines the four states of matter: solid, liquid, gas and plasma. Water, as well as, other materials are used as examples as to why a single substance can exist in so many forms.

## Mixtures and Solutions

Weeks of 10/2, 1/15, 4/23

Using visual images from the natural world, the home, and the laboratory, students learn about mixtures through detailed examples of colloids, suspensions and solutions.

## Elements, Compounds and Atoms

Weeks of 10/9, 1/22, 4/30

This video exposes students to the language of chemistry and to the written symbols which are used to represent elements and compounds. The general structure of the atom will be revealed.

## Atomic Structure and the Periodic Table

Weeks of 10/16, 1/29, 5/7

A detailed examination of the structure of the atom will expose students to subatomic particles. The following terminology and concepts are discussed; atomic mass, atomic number, isotope, noble gas, alkalai metal and carbon family.

## Chemical Bonding

Weeks of 10/23, 2/5, 5/14

This video intrduces students to the nature of chemical bonding and the characteristics of atoms that allow them to form bonds.

## Chemical Reactions

Weeks of 10/30, 2/12, 5/21

This video explores the characteristics of chemical reactions by analyzing some simple everyday chemical reactions. It also introduces chemical equations and shows students how to balance chemical equations via colorful animations.

# BIOSCOPE

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
2:20 CH 10	10:35 CH 8	11:35 CH 10	12:15 CH 8	11:35 CH 8

Concepts such as the web of life, adaptation, the food chain, life cycles and interdependence come alive for the students as Bioscope features locations from the Amazon to the Arctic and living beings from algae to great whales.

**Grades 5 - 8 Teacher Guide Available 15-Minute Lessons**

## **The Life Sciences**

Weeks of 1/29

This program is an overview of the series and can also be used as a review. It also examines the major contributions of more than twenty life scientists.

## **Cells**

Weeks of 2/5

A study of the cell - the basic unit of structure and function in living things. The parts of the cell are named and explained.

## **The World Of Living Things**

Weeks of 2/12

Compares and contrasts the many complex organisms found on land and in the sea with their variety of forms and functions.

## **Where Plants & Animals Live**

Weeks of 2/19

Examines the major biomes and explains how environmental differences can affect the plant and animal life in them.

## **Adaptation**

Weeks of 2/26

Looks at the reasons why organisms must adapt, how they change, and why some are unable to adapt and consequently become extinct.

## **The Natural Balance**

Weeks of 3/5

Explains the workings of an ecosystem, and shows what happens when stress on an ecosystem alters its natural balance with devastating ecological results.

## **Endangered Species**

Weeks of 3/12

Describes the causes of animal and plant extinction, the loss to mankind, and what efforts are being made to protect endangered species.

## **Frontiers In The Biosphere**

Weeks of 3/19

We look at current research in science, medicine, and agriculture and how scientists are exploring other frontiers in search of solutions to improve the quality of life.



# SCIENCE SCREEN REPORT

**DIAL-A-LESSON - (914) 968-7800 - See Page 7**

Contemporary science programs on the cutting edge of scientific discoveries which highlight innovative problem-solving and research.

**Grades 6 - 8**

**Lesson Lengths Vary**

## **PHYSIOLOGY: Human Blood**

15-Minute Lesson

A fantastic journey through the body's circulatory system. The components and disease fighting properties of human blood are explored, along with the causes of blood-related and circulatory diseases.

## **BIOLOGY: Fascinating Fungi**

15-Minute Lesson

Explores fungi growth and reproduction, their symbiotic relationships with certain plants, and their role in forming nutrient-rich soil.

## **ECOLOGY: Greenhouse Effect**

15-Minute Lesson

As we burn matter, harmful gases are released into the atmosphere. The accumulation of such gases is blanketing the earth creating a global heat trap which scientists call the greenhouse effect.

## **Global Greenhouse**

15-Minute Lesson

Visits to laboratories around the world where scientists work to discover the potential ecological impacts of global warming.

## **PHYSICS: Lasers: Light Amplification**

15-Minute Lesson

Discover what makes a laser beam, the precautions of working with lasers and their important role in today's society.

## **Radiation: An Introduction**

15-Minute Lesson

Explains how radiation was discovered and how and where it is present in everyday life. Also explores its practical uses as in X-Rays, nuclear medicine and power plants.

## **Radiant Energy- All Around Us**

15-Minute Lesson

Explores various types of radiant energy such as gamma rays, radar, television, radio, and microwaves and the many applications of each.

## **MARINE SCIENCE: Dolphin Research**

15-Minute Lesson

Travels to Florida and Hawaii where ongoing studies examine the learning, communication and social skills of these gentle marine mammals.

## **RESEARCH: Testing the Future**

25-Minute Lesson

Introduces students to the wide-ranging fields of basic and applied research. Careers in mathematics, physics, environmental science, engineering and life science are described.

## **CHEMISTRY: Plastics - Problems & Solutions**

15-Minute Lesson

Explains how plastic is made, examines many plastic products, discusses recycling.

## **Ozone Blanket**

15-Minute Lesson

Examines scientific tools and techniques used to discover and confirm ozone depletion.

## **ASTRONOMY: The Red Planet**

23-Minute Lesson

Tracks Mars exploration to date and compares the planet with Earth. Using a process called scientific data visualization, viewers will take a spectacular simulated flight over the surface of Mars.

# EARTH, THE ENVIRONMENT & BEYOND

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
11:55 CH 10	10:00 CH 8	1:45 CH 8	11:45 CH 10	10:50 CH 8

A video encyclopedia designed to supplement students' studies of earth science and astronomy. The videos go beyond textbook presentations by using computer graphics and other methods to reveal factual information.

**Grades 6 - 8 Teacher Guide Available 15-Minute Lessons**

## **The Antarctic**

Weeks of 9/18, 1/22, 5/21  
Describes climate, geography, wildlife, and exploration of the continent.

## **Atmospheric Phenomena**

Weeks of 9/25, 1/29, 5/28  
Considers climates, structure of atmosphere, cloud and rain formation, and storms.

## **Atmospheric Pollution**

Weeks of 10/2, 2/5, 6/4  
Examines atmospheric structure and sources and effects of pollution.

## **Comets**

Weeks of 10/9, 2/12  
Examines composition, origin, and behavior of Halley's comet and others.

## **Planet Earth**

Weeks of 10/16, 2/19  
Considers Earth's composition, surface characteristics and ability to support life.

## **Earthquakes**

Weeks of 10/23, 2/26  
Looks at the power and causes of earthquakes, including the movement of tectonic plates.

## **Forces That Govern Our Universe**

Weeks of 10/30, 3/5  
Examines gravity, electro-magnetism, and nuclear energy.

## **Glaciers**

Weeks of 11/6, 3/12  
Defines glaciers' origins, movement, and erosive effects.

## **Moon Conquest**

Weeks of 11/13, 3/19  
Illustrates characteristics of the moon, Apollo and other exploration projects, and research based on lunar visits.

## **Pollution**

Weeks of 11/27, 3/26  
Explores ecological cycles, pollution from industries and cities, and affects on the land.

## **The Sea**

Weeks of 12/4, 4/2  
Describes sea water, wildlife, currents, waves, tides, and sea floor geology.

## **Our Solar System**

Weeks of 12/11, 4/23  
The origins, planets, and future of our solar system.

## **Stars**

Weeks of 1/1, 4/30  
Describes composition, location, and types of stars and the sun.

## **The Sun**

Weeks of 1/8, 5/7  
Explores the sun's physical characteristics, energy, and relation to Earth and life.

## **Volcanoes**

Weeks of 1/15, 5/14  
Illustrates the origin and process of erupting volcanoes, and volcano types and zones.

# BIOVISIONS

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
10:10 CH 10	11:10 CH 10	9:50 CH 10	12:15 CH 10	2:45 CH 8

This is a collection of short segments that illustrate the behavior and ecological interactions of organisms.

**Grades 6 - 8    Teacher Guide Available    Lesson Lengths Vary**

## Imaging the Hidden World

Weeks of 11/13, 4/2

14 Minutes

Learn about microscopes and how to use them. Included are segments on videomicroscopy and macrovideography.

## The Micro-Life Resource - Part 1

Weeks of 11/27, 4/23

13 Minutes

Full motion video segments on bacteria, cyanobacteria, kingdoms of micro-life, flagellates, euglena, termite symbionts, volvox, amoebas and heliozoans.

## The Micro-Life Resource - Part 2

Weeks of 12/4, 4/30

13 Minutes

Full motion segments on paramecia, vorticella, giant ciliates, micro-algae and water molds.

## The Coelenterates

Weeks of 12/11, 5/7

12 Minutes

Explores the structure, feeding behavior, and ecology of hydra, obelia, physalia, the Portuguese man-of-war, and other marine hydroids. Jellyfish include aurelia; sea anemones and corals are studied using macro shots of polyps and close-ups of their feeding behavior and other activities.

## The Flatworms

Weeks of 1/1, 5/14

12 Minutes

Examines the structure, feeding behavior, regeneration of planaria and shows a variety of other tree-loving flatworms. The most striking observations are of trematodes, particularly lung flukes and bladder flukes. Fluke life cycle stages are shown and discussed with good micro views of miracidia and cercaria. Cestodes include pork tapeworms and others.

## The Mollusks

Weeks of 1/8, 5/21

12 Minutes

Examines the chitons, gastropods, including closeups of snails, nudibranchs, bivalves, squid and octopus.

## The Annelids

Week of 1/15, 5/28

12 Minutes

Explores the ecology, feeding anatomy and physiology of the earthworm. Studies the worm's circulatory and digestive systems and may replace the need to dissect living animals. The special anatomy of leeches completes the survey of the three groups of segmented worms.

## The Arthropods

Week of 1/22, 6/4

15 Minutes

Explores the arthropod characteristics and identifies the different types including millipedes, centipedes, arachnids, crustaceans, and insects. Don't miss the waggle dance of the honeybee!

## The Echinoderms

Week of 1/29

11 Minutes

Stars of the seashore, and by far the prettiest tide pool animals, the echinoderms share their evolutionary limbs with our own phylum. The segments introduce sea stars, brittle stars, basket stars, sea urchins, sand dollars, and sea cucumbers.

# OUR HUMAN BODY

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
12:30 CH 12	11:30 CH 12	9:30 CH 12	1:00 CH 12	10:00 CH 12

Our Human Body focuses on the biological factors that create and personalize our bodies, help us function, keep us well, and sometimes make us ill.

**Grades 7 - 8 Teacher Guide Available 15-Minute Lessons**

## What Is Blood?

Week of 11/27, 3/26

Looks at functions and characteristics of human blood and blood transfusions.

## The Brain

Week of 12/4, 4/2

Defines neurons, the human nervous system, and brain structure.

## What Are Cells Like?

Week of 12/11, 4/23

Describes cellular structures, functions, and reproduction.

## DNA: Life's Controller

Week of 1/1, 4/30

Looks at historic research, DNA structure, and function, genetics, mutation, and evolution.

## How Did Life Begin?

Week of 1/8, 5/7

Considers what life is, how earth and essential organic compounds were formed, and evolution from primitive organisms.

## Nutrition

Week of 1/15, 5/14

Explores importance of food proteins, vitamins, carbohydrates, and digestion.

## Respiration

Week of 11/13, 1/22, 5/21

Considers aerobic respiration, respiratory systems, and human respiration.

## The Sense of Sight

Weeks of 11/6, 1/29, 5/28

Examines structure and functions of the human eye and the nature of animal and insect vision.

## Viruses

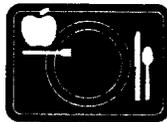
Week of 10/30, 2/5, 6/4

Explores viruses' potency, discovery of viruses, their characteristics, and infection process.

## How a Human Being is Formed

Explains functions of reproductive organs and traces the development of the embryo and fetus.

**Please call ITV [(914) 968-7800] to preview this program before watching it with your class.**



# HUMAN SYSTEMS

MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
12:30 CH 12	11:30 CH 12	9:30 CH 12	1:00 CH 12	10:00 CH 12

The programs in this series provide a framework for understanding the structure of the human body and its major systems. The processes of these vital systems are clearly shown through the use of animation and demonstration.

**Grades 7 - 8**

**Lesson Lengths Vary**

## **The Work Of The Heart**

Week of 9/18, 2/12

21-Minute Lesson

Vivid animation illustrates the parts of the heart and how they relate to the work of the lungs, arteries and veins.

## **The Digestive System**

Week of 9/25, 2/19

20-Minute Lesson

Traces food through the system, illustrating enzymatic action and the regulation of the digestive process by hormones and nerves.

## **The Nervous System**

Week of 10/2, 2/28

17-Minute Lesson

Visualizes how the nervous system controls and intergrates specific bodily activities.

## **The Respiratory System**

Week of 10/9, 3/5

26-Minute Lesson

Shows how the body takes in oxygen and expels carbon dioxide; also shows how smoking can devastate the respiratory system.

## **The Skeleton**

Week of 10/16, 3/12

17-Minute Lesson

X-ray pictures, diagrams and detailed close-ups of bones identify the structure, function, composition and coordination of the skeleton.

## **Skin: It's Structure & Function**

Week of 10/23, 3/19

21-Minute Lesson

Examines the function of the skin - the largest single organ of the body. Skin problems and skin care are also discussed.

