

SECTION 3: Living the dream

08



Living astronauts on the moon was a huge achievement for the U.S. space program. But every year since then, scientists, astronauts and engineers have been making new breakthroughs for the NASA space agency.

Some have involved making flights aboard the Space Shuttle fleet. Some have involved pioneering ideas about the International Space Station being built in orbit 250 miles above the Earth. Many have involved amazing unmanned missions that have explored Earth's moon, other planets and the far reaches of the solar system and the universe.

Visitors to the exhibit "Space: A Journey to Our Future" will get to explore some of these exciting achievements in the past of the exhibit called "Living the Dream."

This series of displays is designed to open visitors' eyes to the wonders of discovery that are taking place right now, including robotics, deep space probes, next-generation telescopes and space tourism.

Multimedia, graphic and interactive displays describe many of the NASA Space Agency's current studies and show how people and organizations all over the world are

unlocking secrets of the universe. A touch-screen computer lets visitors look at the same star field through two different telescope sets, while other displays give you first-hand experience on various probes now hurtling through the solar system.

09

the view from space

Robospacesuit astronauts aren't the only ones in space. But when the astronauts are on Earth, it's like they're looking at the Earth from space.

The visible space station, which has been orbiting Earth since 1990, is the only thing in space that we can see from Earth. And the view, it has been said, has been amazing.

In the exhibit "Space: A Journey to Our Future," the view from space is a key feature.

Step by step, the view from space is shown. It is floating and when it is able to be picked up and held.

The exhibit is designed to be used in multiple ways. It is designed to be used in multiple ways. It is designed to be used in multiple ways.

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Meet the robonauts



Humans have achieved amazing things in space. Now scientists want to explore them.

Not for everything-out-for-thing, that's not engineering, making human features and make humans require—without putting humans at risk. Or they can be used in emergencies when humans aren't there.

Robonauts can't get out fast enough.

In space they will be used for various tasks and require various space capabilities or the International Space Station, where space radiation and extreme temperatures put human space workers at risk.

NASA's robonauts operate with visual reality hardware in which operators control a robonaut's movements by moving their own bodies. The operators wear special headsets and gloves that direct the robonaut's hands to do exactly what the operator's body does.

The robonauts are like fingers. The robonauts wiggle the fingers. If the operator moves to grab the handle of a hatch, the robonaut grabs the handle of a hatch.

The robonaut has two cameras that provide operators that is just like the sight humans get from their eyes.

Robonauts also may provide a new vision for space exploration in the future.

do it! potato power

Potatoes are for french fries. Everybody knows that. But have you ever heard of a potato that produces electricity? Try this.

1. Set the 2 potato halves, flat side down, next to each other on the paper towel.
2. Wrap one end of the zinc wire around a nail and stick the nail into the first potato.
3. Tightly wrap one end of the second wire around a...

Wormhole is a new and exciting concept that allows you to explore the universe in a way that is both fun and educational. It is a new and exciting concept that allows you to explore the universe in a way that is both fun and educational.

SPACE

A JOURNEY TO OUR FUTURE

Presented in collaboration with NASA






created for: Detroit Science Center
in partnership with Detroit Newspapers in Education

services provided: writing, editing and graphic design

what it is: curriculum supplement for students with educational activities tied to state and national standards

related work: Hollister and its NIE partners have produced sponsored teacher guides and student curriculum supplements for other science museums, including the Academy of Natural Sciences, the Franklin Institute, and the University of Pennsylvania Museum of Archaeology and Anthropology