

# TEAM DISCOVERY

**Space scientists have their heads in the stars** (in a good way). But many of the technologies designed for space are also helpful here on Earth.

Together with a team of three to five classmates, research one of the many exciting new space-science projects that researchers are designing for use on Earth and in space. Select a technology from the following list, then research the project to prepare.

**Choose** a technology from the following list:

- ▶ Robonaut 2
- ▶ Smart SPHERES
- ▶ Laser Communications Relay Demonstration
- ▶ Deep Space Atomic Clock Mission

**Research** the technology, citing a variety of print and digital sources, including websites, newspaper or magazine articles, and video clips of archived lectures or webcasts. List your sources below.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_

**Answer** the following questions on a separate sheet of paper as you research your topic.

1. What does the technology involve?
2. Describe any challenges or obstacles researchers faced in the development of the technology.
3. Compare and contrast two different authors' points of view regarding the technology.
4. How will the technology benefit space science?
5. How will the technology meet real-world needs on Earth?

**Host** an in-class newscast to share your findings. One team member will be the newscaster, asking questions about the project. Other team members will act as scientists and engineers, answering questions about the new technology and its benefits.



## ABOUT EARTH TO ECHO

Technology helps us unlock the world's biggest mysteries. Check out how Tuck, Munch, Alex, and Emma rely on their phones and teamwork skills to unlock their own mystery when *Earth to Echo* hits theaters July 2, 2014.

## LIFE-CHANGING DISCOVERIES

Did you know NASA research has contributed to these amazing tools?

- ▶ Artificial-limb capabilities
- ▶ Solar energy technologies
- ▶ MRI and CAT scans
- ▶ Infrared ear thermometers
- ▶ Invisible braces
- ▶ Shoe insoles
- ▶ Cell phone camera technology
- ▶ Water filters
- ▶ Cordless tools