



Space Calling Earth

Learning values

- Developing an awareness of outer space
- Exploring outer space communication devices
- Getting to know about data collection

Recommended materials

9335 Space & Airport Set

Vocabulary

Encourage the use of these words during the activity:

- Space station
- Scientist
- Collect data
- Distribute data
- In orbit
- Weather data
- Communication

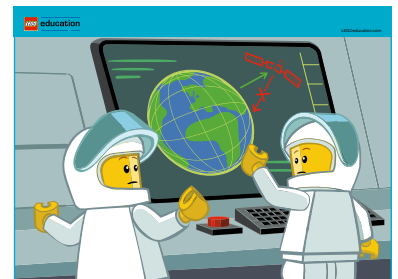
Connect

McDougal and Smithy, two scientists at the SANA space station, are planning to send a new satellite into space.

A satellite is an object that travels in orbit around the earth while, for example, collecting data about weather conditions and transmitting that data back to earth.

McDougal and Smithy often have problems with the existing satellite and being the highly respected scientists that they are, they need to be able to collect and distribute correct weather data.

The SANA space station has no money this year for a new satellite. Can you help the two scientists and make their wish come true?



Use the illustration to support the Connect story

Construct

- Design and make a space satellite that can travel in orbit around the earth and collect data for McDougal and Smithy.



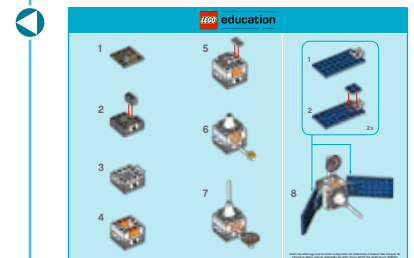
Suggested model solution

Contemplate

- Ask the children how satellites go in orbit. Have the children demonstrate the function.
- Have the children explain how a satellite collects data and how this data is transmitted back to earth.
- Discuss with the children what other types of data a satellite can collect. What is the data used for: weather, communication, TV, espionage, etc.?

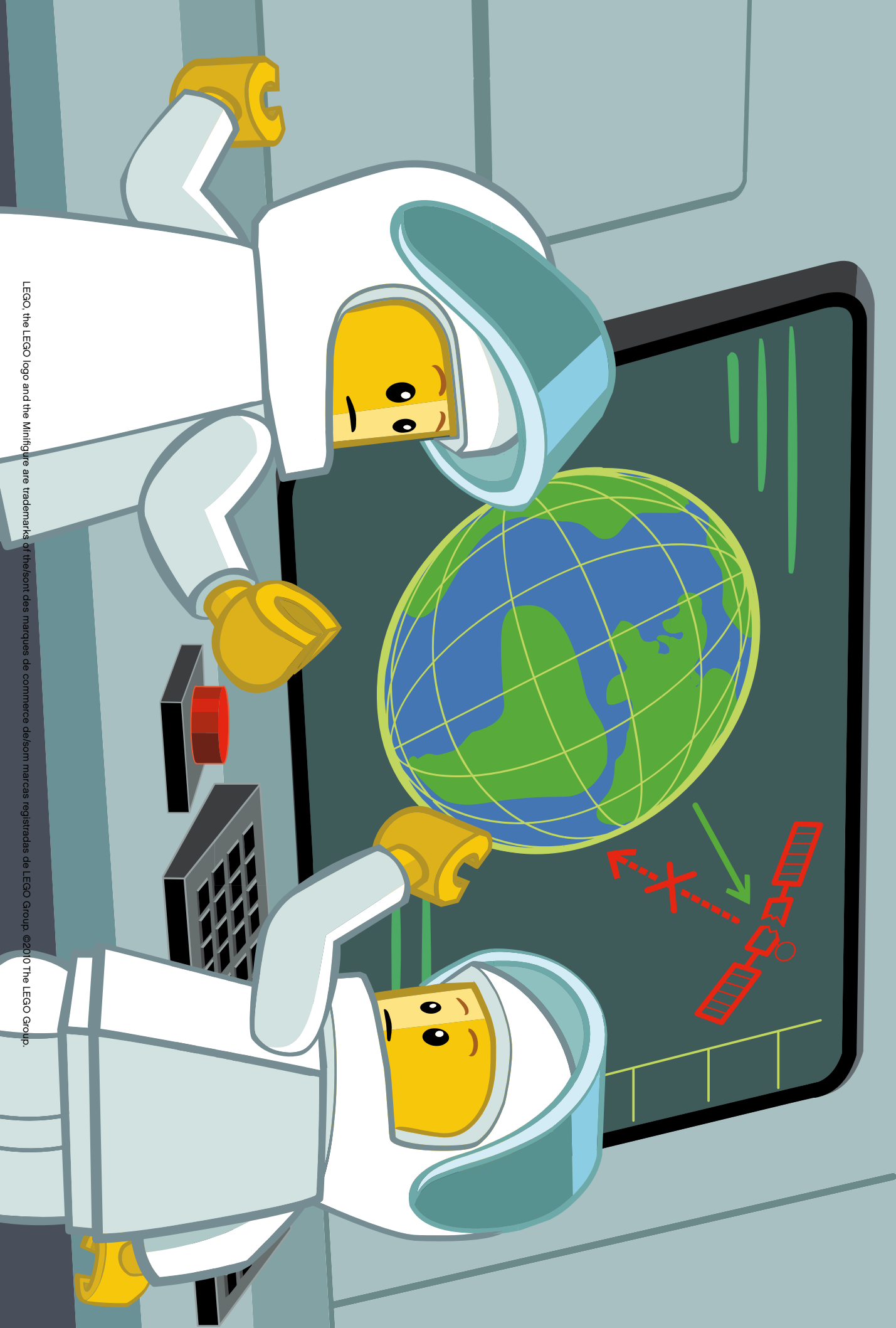
Continue

- The SANA space station needs more data from satellites. Design and make a different satellite and explain its purpose.
- All the data is collected and then transmitted and picked up on earth. This is done via computers and further distributed to people via computers or TV, for example. Design and make a TV and prepare your own weather forecast.



Can be used as inspiration





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