

# STARBASE Minnesota Homework

## STARBASE Engineering Journal

The STARBASE Engineering Journal is the homework intended for use by our participating classroom teachers and students during the 2011-2012 school year. We have provided the STARBASE Engineering Journal as the homework option for several reasons. First, it reinforces the skills and content learned each day by allowing students to reflect upon their own learning experiences. Second, parents become more informed about what their child is doing at STARBASE as their child tells the story of STARBASE in their journal. Also, classroom teachers may use the STARBASE Engineering Journal as part of an overall assessment of students' work at STARBASE and as a way to reach the 5th grade language arts standards related to narrative writing and word processing.

As part of their participation in the STARBASE program, we expect that students write in their engineering journal after each day of the program. Please do not send the STARBASE Engineering Journals with the students to STARBASE with the exception of Day 3. The journaling task after Day 3 asks students to identify the engineering needs of a colony on Mars. Students must complete this page after Day 3 and bring it with them to STARBASE on Day 4. We will not be collecting any other journals during the week. We would, however, like students to submit a portion of their journal to STARBASE via our online KidsBlog. Listed below are some ideas or options of how the STARBASE Engineering Journals can be incorporated into your classroom and how students can submit their writing to KidsBlog.



**Option A** – Written Paper Journal - Provide each student with at least a 5 page STARBASE Engineering Journal for use after each day of the program. Students will then write in their journal after returning to school each day, or at home as part of their daily homework.



**Option B** – Blog Format – Provide each student with one page of the STARBASE Engineering Journal to use as reflection guide. After returning to school each day, or before leaving for STARBASE the next day, students will type their journal into a Word document. After their STARBASE experience, students may submit portions of their blogs to STARBASE via an online blog form. This form can be found at <http://www.starbasemn.org/students/KidsBlog.html>. Students may cut and paste portions of their blog into the form and submit it to STARBASE. We love reading these blogs and encourage all teachers to have their students submit a portion of their writing! Please note: Blogs submitted to STARBASE will not be available to classroom teachers.

\* Note: Remember- Students should bring the completed Day 3 Journal page with them to STARBASE on Day 4.

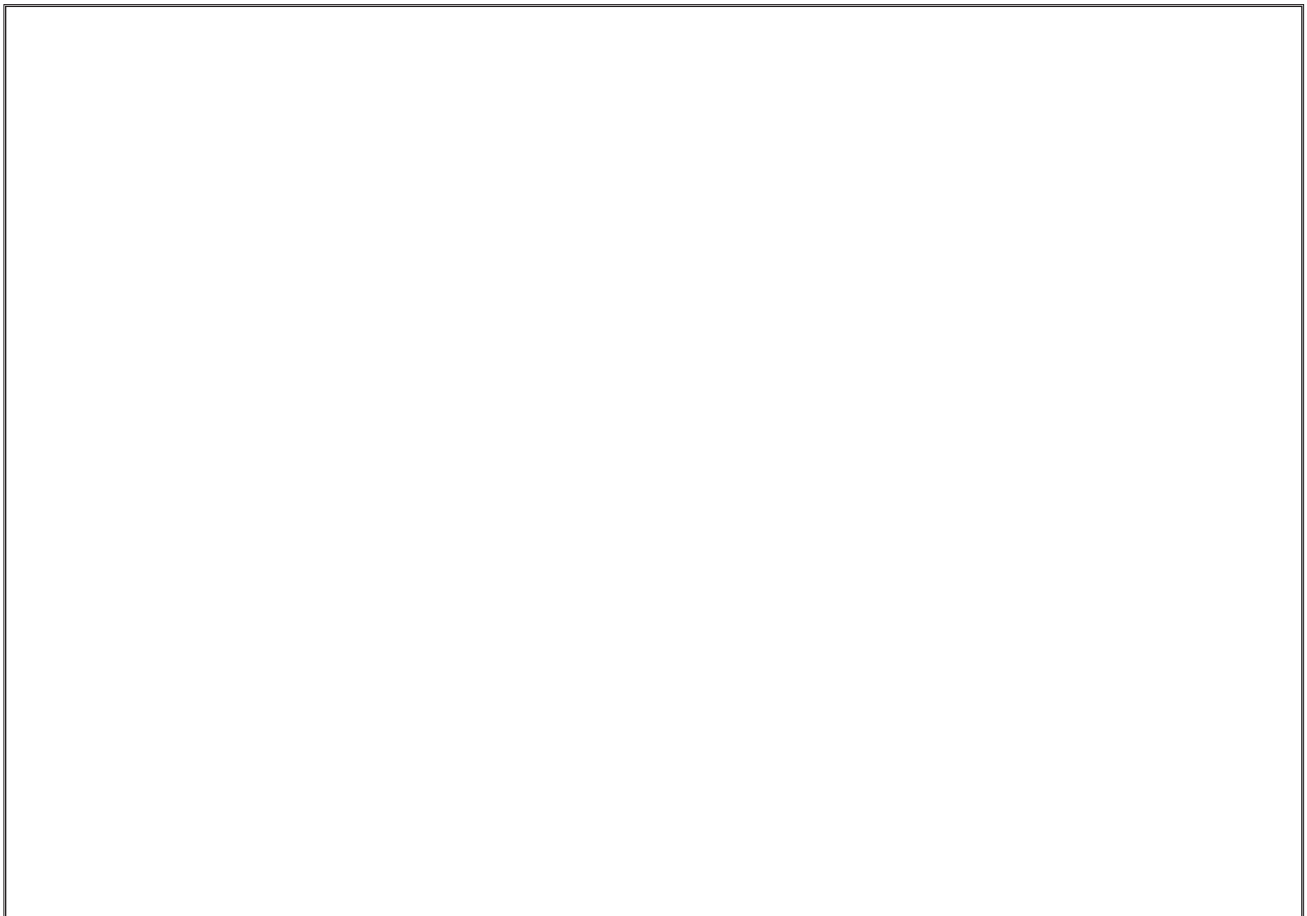


# STARBASE Homework: Engineering Journal

NAME: \_\_\_\_\_

**Engineers** have ideas for designs and they need to communicate about them. They use their math and science knowledge to decide how they could work. They need to tell people their ideas and they can share their ideas using pictures.

Think of what you learned about today. Draw a picture of something you could invent. Describe your drawing and idea below the picture. Enjoy being creative.



Write about your picture here:

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# Day 3 Homework

## Mars Colony Design Planning



What facts do you know about Mars?

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Answer these questions to help plan your design.

1. What is one type of building your Mars Colony will need? \_\_\_\_\_  
\_\_\_\_\_
2. Do we have this building on Earth? \_\_\_\_\_
3. What are some special needs for this type of building on Mars?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. Use another piece of paper or the back of this sheet, to draw your new building design. Take time to design a 3-D model and bring it with you to STARBASE.

### Materials you could use for your 3D model:

- ◆ Paper
- ◆ Tape
- ◆ Tubes
- ◆ Pop Cans
- ◆ Blocks
- ◆ Wood
- ◆ Glue
- ◆ Pipe Cleaners
- ◆ Use your imagination!