

Outer Space

Blast off into the great beyond!



This worksheet is to be used with Project Pullout 13, which is found in the November 2007, Issue 68 of DMAG. You will need to do a bit of detective work and read this Project Pullout carefully to be able to carry out your mission ... which is to complete these activities!

SPACE JUMBLE

Fill in the blanks using the jumbled answers below. Tick off the words as you use them:

- Pluto
- Olympus Mons
- Nebula
- Neptune
- terrestrial
- Milky Way

1. _____, which is found on Mars, is three times as tall as Mt Everest.
2. Mercury, Venus, Earth, and Mars are known as the _____ planets because they all have rocky surfaces.
3. Jupiter, Saturn, Uranus, and _____ make up the Jovian planets, also known as the Gas Giants.
4. When a _____ collapses on itself, a star is born!
5. Since _____ was downgraded to a dwarf planet, there are now only eight planets in our Solar System.
6. The Solar System is one of billions in our galaxy, The _____.

MEMORISE ME!

1) Write out the eight planets in order:

2) A mnemonic (sounds like new-mon-ic) is a trick that helps us memorise something. Most mnemonics are sentences in which the first letter of each word stands for something to memorise. For example, to remember the music scale you could memorise EGBDF, or you could remember *Every Good Boy Deserves Fruit*. Make up your own mnemonic to memorise all eight planets in order! Example: *My Very Educated Mother Just Served Us Nuts*.

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IMAGE COURTESY NASA



MOON WATCHING

Your first mission: Use the Internet to find out what the different phases of the Moon are called and write the names underneath the graphic below. We've done the first two for you as an example.

Your second mission: Spy on the Moon! Every Monday and Friday night for the next five weeks, go outside at night and draw how the Moon looks and describe it. Finish the exercise below to help with your descriptions. To make your work look good, draw up a table on a separate piece of paper to record your findings. Think about the headings your table will have – you will need a column for the date, one for the description and one to draw the moon in.

FOLLOW THE PHASES!



New Moon _____
 Crescent _____

DID YOU KNOW?

The same side of the Moon always faces the Earth.

MATCH 'EM UP!

Match the word in the first column to the related word in the second column. Then replace the number in the box with the underlined letter of the matching word to solve the riddle!

- | | |
|-------------------------|---------------------------|
| 1. Mars | Red <u>G</u> iants |
| 2. Sun and stars | Proxima Centa <u>u</u> ri |
| 3. 4.2 light years away | Space <u>R</u> ace |
| 4. Old stars | AL <u>H</u> 84001 |
| 5. USA and Russia | Red <u>P</u> lanet |
| 6. Meteorite | Pl <u>a</u> sma and gas |

Question: What time do Astronauts eat lunch?

Answer: At

1	2	3	4	5	6
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 time!

IT'S ALL RELATIVE!

Whether something is big or small depends on what you are comparing it to. Earth is big compared to Mars but small compared to Jupiter. Work out the best answer in the two multiple choice questions below.

- 1) If the Sun were the size of a basketball, the Earth would be the size of:
 - a. An orange
 - b. A pin head
 - c. A watermelon
- 2) If the Earth were the size of a basketball, the Earth's atmosphere would be as thick as:
 - a. A piece of cloth
 - b. A brick
 - c. 10 phone books stacked on top of each other