# Lesson Plan

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| **Title:** Moonsaic | **Date:** |
| **Learning objective/s:*** To understand the Moon is spherical in shape.
* To develop an understanding of the surface and features of the Moon.
* To understand the phases of the Moon.
 | **Curriculum links:** |
| **Learning outcomes****I want evidence children can:*** Talk about what causes illumination on the Moon.
* Describe the surface of the Moon.
* Understand the phases of the Moon.
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| **Notes on children who have exceeded the performance expected:** | **Action to be taken:** |
| **Notes on children who did not achieve the performance expected:** | **Action to be taken:** |
| **Essential vocabulary:**Craters, shadows, surface, sphere, Lunar cycle, phases, crescent | **Possible misconceptions:**Shape of Moon is spherical despite us seeing a 2D circular disc in the sky.The Moon is not a light source, the light areas are where the Sun’s light is reflecting. |
| **Cross curricular links:** Mathematics, Art, ICT. |
| **Teacher resources including ICT:** * Printed ‘Moonsaic’ data files.
 | **Children’s resources including ICT:** * Each group will require a set of printed ‘Moonsaic’ data files from a phase of the Moon.
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| **Organisation and class management:** | **Teaching points:** | **Notes:** |
| **Introduction:** Whole class discussion | * Discuss the learning objectives and the task with the class.
* Show children an image of the Moon.
* What shape is the Moon?
* How would we describe the surface?
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| **Main phase:**Working in small groups  | * Provide each group with a printed set of data files. Different groups could work on different phases to provide further discussion at the end.
* Explain these are close up images of the Moon taken using a powerful telescope.
* Groups to arrange the printed images to form a large image of the Moon.
* Children should be encouraged to look closely at the surface and to describe what they can see.
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| **Plenary/Conclusion:**Whole class discussion  | * Look at the completed ‘Moonsaics’ from all groups, why are they different? What causes the phases of the Moon?
* Discuss the 28 day Lunar cycle.
* EXT: Children could be asked to keep a ‘Moon Diary’ as homework, to track how the shape of the Moon changes during the cycle.
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