Mission to the Moon

**Year 6**

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| Watch [*How the Apollo Spacecraft works: Part 1*](https://www.youtube.com/watch?v=8dpkmUjJ8xU). Use the prompts and questions below to take notes. Include diagrams if it’s helpful.  What did the Apollo spacecraft allow astronauts to do?  How many parts was the spacecraft broken in to, and what were they called?  What was the Launch rocket called?  Where was it launched from?  Where was mission control?  How tall was the rocket?  How many stages did the rocket have? What were they called?  How were they powered?  Where was the spacecraft stored?  Which module were the astronauts in?  How long does it take for the rocket to get past the Launch tower?  When does the first stage shut off? How high is it in the sky?  What happens to first stage after it shuts off?  When and where does the second stage shut off.  What is the purpose of the third stage? |
| Watch [*How the Apollo Spacecraft works: Part 2*](https://www.youtube.com/watch?v=tl1KPjxKVqk). Use the prompts and questions below to take notes. Include diagrams if it’s helpful.  How high is the parking orbit?  Why is it called that?  How long were they in parking orbit?  How long do they light the third stage again for?  How does the Lunar module get exposed?  How does it get re-attached to the spacecraft?  What are the temperatures like in space?  What did they do to stop the parts of the aircraft freezing or getting too hot?  Why did they start the service module engine?  What was the purpose of the lunar module? How many astronauts did it contain?  What did the other astronaut do?  What was the purpose of the LEMs descent engine?  What was the purpose of the windows?  How were the legs of the LEM designed? |
| Watch [*How the Apollo Spacecraft works: Part 3*](https://www.youtube.com/watch?v=qt_xoCXLXnI). Use the prompts and questions below to take notes. Include diagrams if it’s helpful.  How many parts does the lunar module have?  What were they called?  What was the purpose of each part?  What happens to the descent stage?  How long do the ascent stage engines run for initially?  What happens to the ascent stage?  What does the service module contain?  Where to the astronauts spend the last part of their journey?  What happens to the service module after the space craft gets back into Earth’s orbit?  What part of the whole rocket/spacecraft returns to Earth?  What’s on the bottom side of the command module?  What is its purpose and why is it needed?  What slows down the command module?  What’s the final part of every mission? |