

TIME FOR LAUNCH!



Vinita here! It's 15 December 2015, Tim Peake's launch day. Help us tell his story. Can you add the times to the clocks and draw the missing scenes?

It's Principia Launch Day!
Tim has arrived at the launch site right on time:

8:33 AM



20 minutes later...
Tim enters the Soyuz



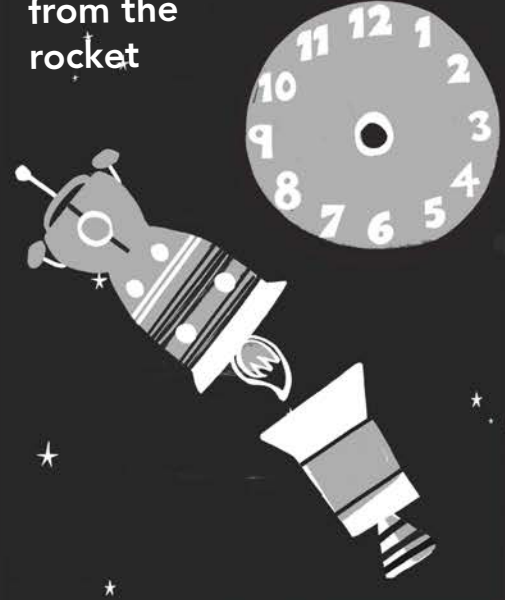
"Mission Control to all vehicles:
It's 10:48am, please evacuate
the launch site and get
ready for launch!"



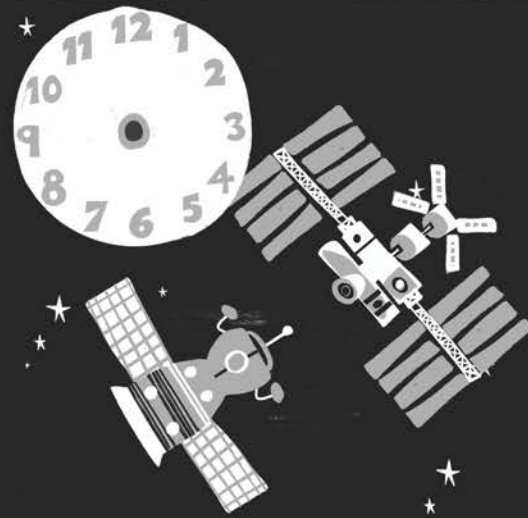
11:03 AM



9 minutes after launch the
Soyuz separates
from the
rocket



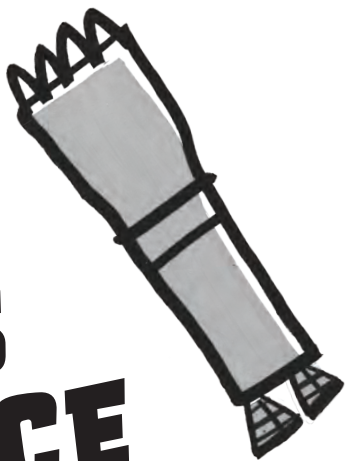
Wow! 6 hours and 10 minutes
later the Soyuz meets the ISS



Phew! At 7pm the hatch
opens and Tim boards the
ISS for the first time, just
in time for dinner!



Zap and listen to U.S. astronaut Richard Garriott describe how it feels to launch into space



8 MINUTES TO SPACE

Liftoff! It took Tim Peake and his crewmates, Tim Kopra and Yuri Malenchenko, about 8 minutes from launch to orbit. Imagine you are there too. How does it feel blasting off into the blackness of space for the first time?

As our spacecraft lifts off I feel...

Handwriting practice lines consisting of 15 horizontal dashed lines.

FAST-TRACK RENDEZVOUS

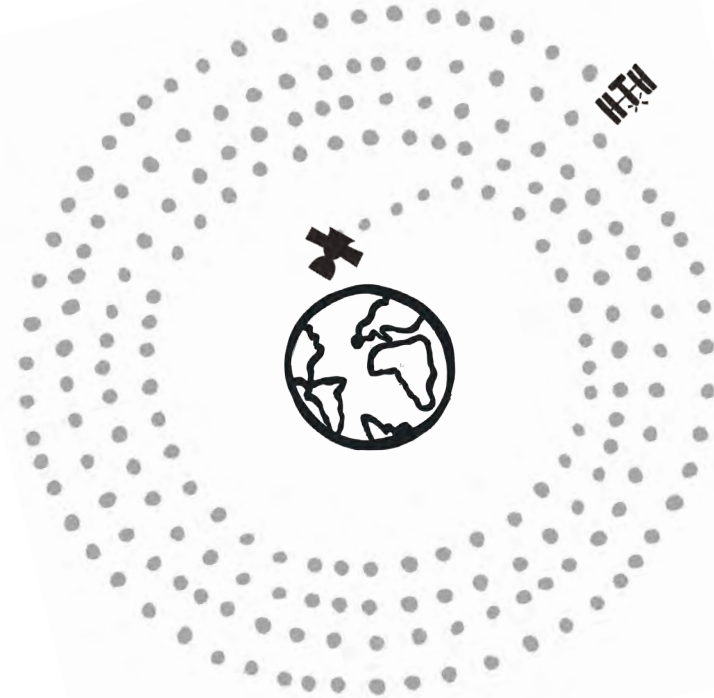
The Soyuz ✈ and the ISS 🚀 must time their meeting in space perfectly. This is called a "rendezvous". The Soyuz carrying Tim Peake and his colleagues did a fast-track rendezvous. Can you help us write up a report of the details?



Trace the route the Soyuz took to find out how many times Tim orbited the Earth.

(Use the **TIME FOR LAUNCH** cartoon at the start of this chapter to help you find some of the answers.)

SOYUZ TMA-19M RENDEZVOUS REPORT



Tim Peake and his crewmates, _____
from the USA and _____
from Russia, were launched at exactly ___ : ___ on
15 _____ 2015. Their spacecraft orbited
the Earth _____ times and it took exactly ___ hrs
___ mins from launch to docking. This is called a
fast-track _____.