

Christmas

COMPETITION

Fancy a challenge this half term break? How many Santa STEM challenges can you complete?

For more information visit **Science-Sparks** on: <http://www.science-sparks.com/2017/11/29/santa-stem-challenges/> or view the school website. Create a mini project book to showcase the challenges you have completed to be up for winning a prize!

Challenge	Problem
1	Oh no, Santa has lost his sense of direction. Can you help him find the North Star?
2	Santa has lost his compass; can you help him make a new one?
3	Oh no! Santa dropped a bag of toys and they have all broken. He left the glue at home and only has his flask of hot milk, how could he make glue and what else would he need?
4	The chimney is too small for Santa to fit through, can you design a catapult or slide so he can safely drop the toys down?
5	One of Santa's cheeky elves keeps hiding, can you design and build him a shelf to sit on?
6	Santa is visiting a house with no Christmas tree, he sees a stack of paper cups by the fireplace, can you help him build a tree to put the presents under?
7	Oh no! The reindeers have run out of magic flying dust and need to cross a lake, can you build them a raft?

Trips out! Why not visit...

- The Space Centre in Leicester to further enrich your child's understanding of space!
- Santa Safari at West Midlands Safari Park in Bewdley "As well as meeting Santa, real reindeer and penguins, children can see the park's cheetahs, lions, elephants and giraffes as well as meeting meerkats and walking through the UK's largest lemur wood.

Find out about how Tim Peake survived in space with the Ask an Astronaut book!

TIM PEAKE
Ask an Astronaut

