

Exploration to Earth

You need: a calculator (optional)

ACTIVITY

A long time ago, in a galaxy far, far away, a humble alien called Googal was ordered by the Emperor to travel all the way from Zozax to Earth. This was a journey of 1 000 000 kilozaps. Googal was given a map and some very handy information about the journey:



Space stop distances
from Zozax (in kilozaps) :

▲ Anzax	812 000 kz
▲ Cojax	640 750 kz
▲ Exax	608 986 kz
▲ Gotax	83 257 kz
▲ Kleenax	249 038 kz
▲ Havax	493 025 kz
▲ Minax	173 469 kz
▲ Relax	335 144 kz
▲ Hilf	500 000 kz

Instructions:

- ▲ Your spaceship must be refuelled every 200 000 kilozaps.
- ▲ Your spaceship can travel 25 000 kilozaps before you need to stop for a sleep somewhere in space.

1.
 - a. Draw a space line showing the distance from Zozax to Earth. On the line, show the approximate position of each space stop.
 - b. How far is each space stop from Earth in kilozaps?
2.
 - a. Work out the distance between each space stop and the next.
 - b. How many sleeps would Googal have between space stops?
3. At which space stops might Googal refuel the spaceship? (Refuelling takes a long time, so Googal wants as few “top-ups” as possible.)

