

Maths In Motion
SPACE

Workbook

Lesson 5: The universe

To join in please bring:

A balloon, a marker pen, and elastic band



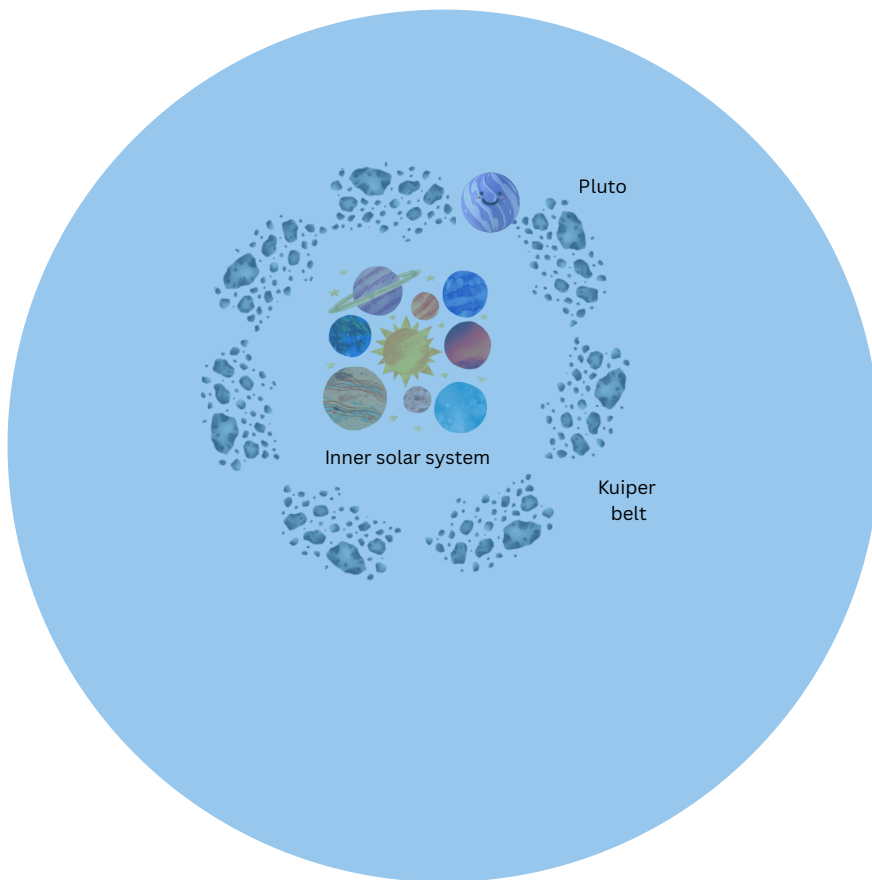
Size and distance

Earth



Our nearest
neighbouring
planet
..... minutes
away at light
speed

Venus

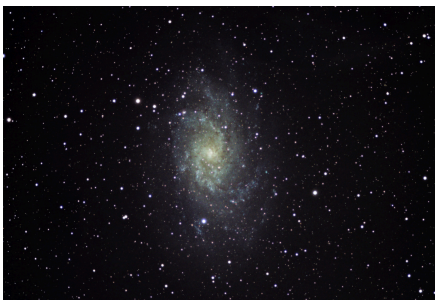


Our solar
system is
lightyears wide

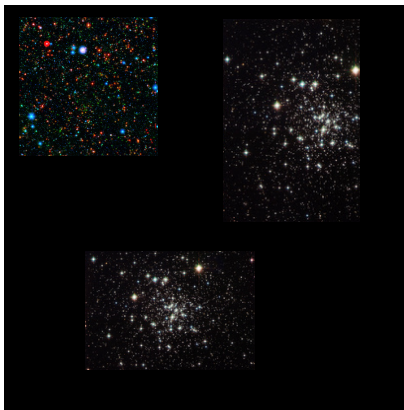


The closest star to the sun is light-years away

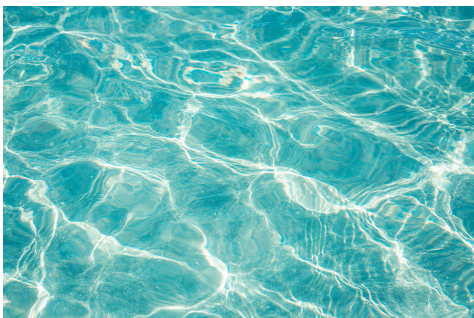
Within 16 light-years there are star systems (containing 60 stars)



The Milky Way is light-years wide
It contains 200 billion stars



Massive webs of superclusters make up about % of the visible universe



The observable universe is about light-years across

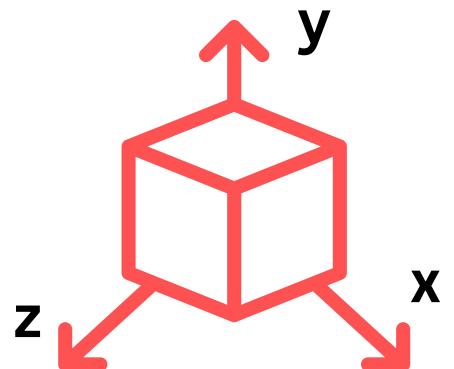
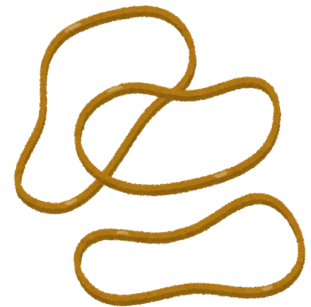
Stretching



When you blow up a balloon, what do you notice?

STRETCH

When you stretch an elastic band, what do you notice?



At home challenge:



Explore the universe through Hubble's Cosmic Adventure.

This is a game from NASA, where you answer questions and get to explore the universe billions of lightyears away.

<https://science.nasa.gov/mission/hubble/multi-media/hubbles-cosmic-adventure/>