X-ray crystallography

Exercise *(Work in pairs)*

Watch the video "X-ray crystallography (2014): X-ray crystallography is the most important tool to determine the atomic and molecular structure of matter". Then answer questions 1 and 2. If necessary, look for more information on the Internet to answer the questions.

1) **What kind of findings can be obtained using X-ray crystallography?**

2) **On which principle is X-ray crystallography based?**
   a) Why are X-rays used and not UV rays?
   b) What is a crystal?
   c) What is the primary result?

Other links:

Background information on x-ray crystallography:

- http://www.ruppweb.org/Xray/101index.html

Introduction to the electromagnetic spectrum and x-rays:

- https://imagine.gsfc.nasa.gov/science/toolbox/emspectrum1.html

Introduction to crystal structure:

- https://www.deltacollege.edu/emp/ckim/Labs_PDF/crystal-packing-lab.pdf

