Slide 6:

These our our potential science objectives:

Our first potential science objective is Fiber optic Cables in Space:

This potential science objective **will measure the speed and efficiency** of fiber optic cables in **micro and macro gravity** conditions.

We will be testing both **standard and space grade Fiber-Optic** cables.

This objective would serve to **measure the effect of gravity on photons** and **provide data on the performance of an important material**.

Our third potential science objective is the Degradation of Pharmaceuticals in Space:

This experiment will measure the **potency drop-off** and **shelf life** of common pharmaceuticals in microgravity.

We will collect data using a **Chemical Potency Tester**.

This is important because it will provide important safety information relating to medicines in space.

Slide 8:

Our Chosen science objective is Fiber-Optic Cables in Space:

As previously stated, we will measure the speed and effectiveness of fiber-optic cables in micro and macro gravity conditions

A fiber optic cable works when a laser injects a beam of light into a core of glass filament, and light bends insid e the cable until it reaches the end of the wire.