

Astronomy Hands-On Activities (Crash Course Aligned)

The Sun

Create a layered paper model of the Sun's interior

The Moon

Use Oreos to model the phases of the Moon

Seasons

Model Earth's tilt and orbit with a lamp and globe

Eclipses

Recreate solar and lunar eclipses using ping pong balls and a flashlight

Telescopes

Build a simple telescope with magnifying lenses

Planets

Create a scale model of the Solar System on a long roll of paper

Asteroids & Comets

Simulate a comet using dry ice and household materials

Gravity

Use a stretched fabric surface and marbles to visualize gravity wells

Constellations

Make constellation viewers from toilet paper rolls and foil

Light

Split white light using a prism or water glass to explore spectra

The Milky Way

Create a spiral galaxy craft with paper and glitter



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Exoplanets

Design your own alien planet with unique features and an orbiting star

Black Holes

Demonstrate how black holes warp space with a stretched fabric model

Meteor Showers

Track actual meteor showers using an app and journal observations

