

## SECTION OVERVIEW

### Knowls

#### 18: Big Ideas JS code

0.5: Meters To Kilometres  
0.5: Sun Moon Distance  
18.0: 15\_4\_how\_cosmological\_parameters\_affect\_the\_cmb\_cold\_dark\_matter  
18.1: 15\_4\_how\_cosmological\_parameters\_affect\_the\_cmb\_regular\_matter  
18.2: 16\_2\_4\_particle\_creation\_timeline  
18.3: bigIdeasActivityOne  
18.4: ch16\_particle\_classification  
18.5: ch4pg1lightminute  
18.6: ch4pg1lightyear  
18.7: ch4pg1powersoftentimescales  
18.8: ch4pg2boatwavedemobcmovingsource  
18.9: ch4pg2boatwavedemosourceofwavesstationary  
18.10: ch4pg2dopplershifttohydrogen  
18.11: ch4pg2quantitativedopplershift  
18.12: ch4pg2twowaysorepresentingaspectrum  
18.13: ch4pg3relativemotion  
18.14: ch4wiu4theandromedashift  
18.15: ch6pg2standardruler  
18.16: ch6pg3animatedfigure612  
18.17: ch6pg3fluxvsdistance  
18.18: ch6pg3mainsequencematchingforclustersofdifferentdistances  
18.19: ch6pg3standardcandle  
18.20: ch6pg3supernovaetypelaanddistances  
18.21: ch6pg3tullyfisher  
18.22: ch6pg4matchthetechniquetothe distance  
18.23: ch7pg2accelerationandmass  
18.24: ch7pg2netforceofanobject  
18.25: ch7pg3animatedfigure75  
18.26: ch7pg3howdoestheforceofgravitydependondistance  
18.27: ch7pg3howdoestheforceofgravitydependonmass  
18.28: ch7wiu7thegalileanmoonsofjupiter  
18.29: chapter2pg1photonraceroundone  
18.30: chapter2pg5planckspectrum  
18.31: chapter2pg6viewingorientation  
18.32: chapter2pg7determiningthecomposition  
18.33: chapter3pt1lightcollectingarea  
18.34: chapter3pt4afindingthesourceandsubtractingthebackground  
18.35: chapter3pt4bcolorizingccdimages  
18.36: chapter\_11\_2\_falling\_into\_a\_black\_hole\_tidalforces  
18.37: chapter\_11\_2\_time\_dilation\_spacetime\_dialation  
18.38: chapter\_12\_2\_lensing\_by\_a\_point\_mass\_gravitationallensing\_simple

18.39: chapter\_12\_2\_macho\_light\_curve  
18.40: chapter\_12\_2\_the\_einstein\_radius\_einsteinring  
18.41: chapter\_12\_3\_different\_types\_of\_lenses\_glbining  
18.42: chap\_2\_1\_wave\_generator\_NEW  
18.43: comovingcoords  
18.44: expandinguniverse1  
18.45: explodinguniverse  
18.46: explosionvsexpansiondensity  
18.47: orbitsimulator  
18.48: testjQueryUI  
18.49: var1  
18.50: wiu15\_a\_curvature  
18.51: wiu15\_b\_amount\_of\_baryonic\_matter  
18.52: wiu15\_c\_amount\_of\_cold\_dark\_matter  
18.53: wiu6thesupernovaof1885  
18.54: wiu\_12\_1\_determining\_masses\_of\_lenses\_grav\_len\_mass\_measurement  
18.55: wiu\_12\_1\_determining\_masses\_of\_lenses\_mass\_calculator  
18.56: wiu\_16\_cosmic\_timeline  
Kilometres To Miles

## Pop ups

Math Exploration 13.1  
Math Exploration 13.2

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