

Digital Mood Ring – Python

Quick Version

(~1 hour of class time)

Getting Ready: Follow these step-by-step videos

Learn about the TI-Nspire CXII calculator ([watch video](#) ~6 min)

(optional) See How Mood Rings Work ([watch video](#))

Part 1: Exploring the science of color

Coding Challenge 1 Getting Started: Using the Color LED ([watch video](#) ~13 min)

Science Activity 1 Exploring Color Mixing ([watch video](#) ~8 min)

Coding Challenge 2 Coding the Secondary Colors ([watch video](#) ~14 min)

Part 2: Coding your ring

Coding Challenge 11 Putting it All Together ([watch video](#) ~15 min)

Note: For Challenge 11 Quick version run the complete code example at the end of the student file.

Downloads: Student Files

Part 1: Exploring the science of color Student TI-Nspire ([download .tns file](#))

Part 2: Coding your ring Student TI-Nspire ([download .tns file](#))

Student Handout Part 1: Exploring the science of color ([download .pdf file](#))

Student Handout Part 2: Coding your ring ([download .pdf file](#))

Python Syntax Quick Reference for Mood Ring Project ([download .pdf file](#))

Student Mood Ring program planning table ([download .pdf file](#))