



Engineering Innovators Online Course Lesson Guide

Day 1

- Introduction - 10 minutes
- Lesson 1: What is Engineering – 30 minutes

Day 2

- Lesson 2: What is Technology – 20 minutes
- Lesson 3: Technology & Engineering in Sports – 20 minutes

Day 3

Lesson 4: The Engineering Design Process – 30 minutes

Day 4

- Lesson 5: Define – 30 minutes

Day 5

- Lesson 6: Imagine – 30 minutes

Day 6

- Lesson 7: Select – 15 minutes
- Lesson 8: Prototype – 30 minutes
 - Sign into Tinkercad

Day 7

- Lesson 1: 3D Design Starter – 50 minutes

Day 8

- Lesson 2: Chess Pawn – 60 minutes

Day 9

- Lesson 3: Easter Ring – 60 minutes

Day 10

- Lesson 4: Heart Button – 60 minutes

Day 11

- Lesson 5: Spin Circuit Assembly (Part 1) – 45 minutes

Day 12

- Lesson 5: Spin Circuit Assembly (Part 2) – 45 minutes

Day 13

- Lesson 6: Move Circuit Assembly (Part 1) – 45 minutes

Day 14

- Lesson 6: Move Circuit Assembly (Part 2) – 45 minutes

Day 15

- Lesson 7: 3D Design Project (Part 1) – 50 minutes

Day 16

- Lesson 7: 3D Design Project (Part 2) – 50 minutes

Day 17

- Lesson 8: Create Your 3D prototype (Part 1) – 60 to 120 minutes

Day 18

- Lesson 8: Create Your 3D prototype (Part 2) – 60 to 120 minutes

Day 19

- Lesson 9: Test – 20 minutes
- Lesson 10: Improve – 20 minutes

Day 20

- Lesson 10: Improve Your 3D Prototype – 45 to 90 minutes

Day 21

- Lesson 11: Communicate Your Idea – 30 minutes

Day 22

- Lesson 12: Define Target Market – 30 minutes

Day 23

- Lesson 13: Develop Your Pricing Model – 30 minutes

Day 24

- Lesson 14: Distribution – 30 minutes

Day 25

- Lesson 15: Present Your Idea – 30 minutes