



Mars Helicopter Challenge: From Concept to Digital Creation



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This session is designed for middle school educators who are looking to implement NASA design challenges into their classrooms. This session will incorporate 2 hand-on activities, a digital component, and a current NASA mission into classroom applicable STEM curriculum.

- I. Introduction (5 minutes)
 - a. Presenter Backgrounds
 - b. What is the NASA OKSG?
- II. NASA's Ingenuity Mars Helicopter Mission (5 Minutes)
Video: <https://www.youtube.com/watch?v=qwdfdE6ruMw>
- III. Rotor Motor Activity (5 Minutes)
- IV. Rotor Motor Extension (10 Minutes)
- V. Design Challenge (10 Minutes)
- VI. Tinkercad Design (5 Minutes)
Link: <https://www.tinkercad.com/>
- VII. Wrap-up (5 Minutes)