



Rocket Chemistry

Eman I. Beck - Presenting

NASA OKSG MTPE Class of 2017-2018 Ambassador
Science Faculty, Terra Verde Discovery School (Norman, Oklahoma)
eman@terraverdeschool.com Twitter: @MsEmanScience

Dorinda Risenhoover - Assisting

Education Coordinator, NASA Oklahoma Space Grant Consortium
dorinda.risenhoover@okstate.edu Cell: 405-314-9161

Helena Guidry- Assisting

NASA OKSG MTPE Class of 2020-2021 Participant
Pre-service Educator- Secondary Math Education; Southeastern Oklahoma State University

- I. Introduction (5 minutes)**
 - A. Introduction to session (1 minute)
 - B. My Background and school (1 minute)
 - C. NASA Background (2 minutes)
 - D. NGSS and Phenomena Based Learning (1 minutes)
- II. Introduction to Lesson (2 minutes)**
 - A. Handout and Resource Description (1 minutes)
 - B. Format of Presentation/Expectations (1 minutes)
- III. 1st activity (20 minutes)**
 - A. Stomp Rocket Activity (10 minutes)
 - B. Newton's Laws, Boosters, and ISP (5 minutes)
 - C. States of Matter Activity (5 minutes)
- IV. 2nd Activity (25 minutes)**
 - A. Fizz Rockets (15 minutes)
 - B. Solid and Liquid Boosters in SLS (10 minutes)
- V. 3rd Activity (25 minutes)**
 - A. Science Journal Application tutorial (5 minutes)
 - B. Factors Affecting Reaction Rates (20 minutes)
- VI. Other applications/Q and A (13 minutes)**
 - A. Sci Journal application uses (3 minutes)
 - B. Q and A (10 minutes)