

2 年 TT Egg drop Teaching Plan

Goal: Combine both the study of English with that of science.

Preparation: Students will read the *Opportunity* handout and answer the questions.

Objective: (1) Students will learn about a modern engineering and logistical marvel in English.

(2) Students will attempt to bring the same level of care and thought to protecting their egg as the NASA scientists brought to *opportunity*.

Reading comprehension 10 minutes by ALT

- Ask the students what they read about for homework and then answer the T/F and fill-in-the-blank questions.
- Show a two minute video on *Opportunity's* landing.
- The final reading comprehension question involves an understanding of gravity and air pressure. This is an attempt to show the complexity of NASA's challenge. Give a brief explanation.

Instruction for Egg drop by ALT/JTE (5 min.)

- Explain that the students will need to think like NASA scientists only with far fewer resources.
- Explain that they must protect an egg so that it survives a two meter drop.
- Explain what materials they are allowed to use (Note: the bag and string are for testing only.)

Activity – Preparation (15 min) by Students

- Split class into teams of four or five students and give them their materials.
- They will have 15 minutes to plan and construct their experiment.
- JTE and ALT observe to make sure things are going smoothly.

Testing (10 min) by Students

- The students will use their string to find 2 meters. They will drop the egg from that height into the plastic bag.
- If time allows the students can test multiple times

Clean up and feedback (10 min) by JTE/ALT

- Instruct the students to gather their plastic bags and leftover material for disposal.
- Distribute the survey and give what instructions are deemed necessary.