Egg Drop – Device Rubric

	Design of Device	Construction of Device	Durability of Device	Condition of Egg	Participation
Descriptors	The extent to which the device adheres to physics principles and matches the design sketch.	The extent to which care is taken in construction of the device using only the allowed materials.	The extent to which the device stays intact and undamaged during testing.	The extent to which the egg survives the impact.	The extent to which the student is engaged in the project and makes efficient use of allotted time.
Weight (%)	25	20	15	25	15
6	**Very Effective** Device is designed using impulse and momentum principles, and exactly matches the design sketch.	**Very Effective** Device is well construted with great care. It is made of only provided materials; no additional materials were used.	**Very Effective** Device stays intact and undamaged throughout flight with minimal damage upon impact.	**Very Effective** Eggshell has no visible cracks.	**Very Effective** Student is engaged in the project and is very self-directed. Efficiently uses time well throughout the project.
5	**Good** Device is designed using impulse and momentum principles, but deviates slightly from the design sketch.	**Good** Device is constructed, but not with great care. It is made of only provided materials; no additional materials were used.	**Good** Device does not stay intact throughout flight, but has only minimal damage upon impact.	**Good** Eggshell has hairline crack(s).	**Good** Student is engaged in the project, but does not always use time well and may have procastinated on one thing. Project is completed on time.
4	**Adequate** Device is designed with little consideration of impulse and momentum principles, although it exactly matches the design sketch.	**Adequate** Device is well constructed with great care; however, the student uses 1–2 additional materials that are not part of the project.	**Adequate** Device stays intact and undamaged throughout flight with some damage upon impact.	**Adequate** Eggshell has cracks that leak a small amount of egg white only.	**Adequate** Student is somewhat engaged in the project. Uses time inefficiently, but completes the project on time.
3	**Limited** Device is designed with little consideration of impulse and momentum principles, and deviates from the design sketch.	**Limited** Device is constructed, but not with great care. The student uses 1–2 additional materials that are not part of the project.	**Limited** Device does not stay intact throughout flight, but has some damage upon impact.	**Limited** Eggshell has cracks that leak large amounts of egg white or small amounts of yolk.	**Limited** Student is occasionally distracted and does not complete the project on time.

Rubric (continued)

2	**Minimal** Device is designed with no consideration of impulse and momentum principles and the device may or may not match the design sketch.	**Minimal** Device is poorly constructed and uses 3 or more additional materials that are not part of the project.	**Minimal** Device stays intact and undamaged throughout flight with major damage upon impact.	**Minimal** Eggshell is broken and separated from egg with yolk exposed.	**Minimal** Student is often distracted and does not complete the project on time.
1	**Inadequate** No device is designed.	**Inadequate** No device is constructed.	**Inadequate** Device does not stay intact throughout flight and has major damage upon impact.	**Inadequate** Eggshell is completely broken with contents of egg ejected upon impact.	**Inadequate** Student is not engaged and does not complete the project at all.