

Additive Assessment Rubric: Session 3 - The Interplanetary Magnetic Field

With an additional activity before the activities begin and encourage students to achieve to their highest potential.

	1	+2	+3	+4	+5
Science Content: Student understands the concept of the interplanetary magnetic field and the design of a NASA satellite whose purpose is to study the IMF.	*Level 2 tasks attempted but not completed or mastered. *Student successfully recalls their prior knowledge of magnets, magnetic fields, and electromagnetic fields.	*Student knows the concept of interplanetary magnetic fields. *Student, through successful completion of activity 1, can make strong connections between the Sun and Earth's magnetic fields and knows the effects of solar wind on Earth's magnetic field.	*Student, through completion of activity 2, understands the purpose of a magnetometer and the magnetometer boom. *Students can draw their own model of a magnetometer using their knowledge of magnetic fields.	*Student, through successful completion of activity 3, draws and creates their magnetometer using real world engineering techniques and creates a practical and functioning model NASA satellite that can accurately measure interplanetary magnetic fields. *Student fully demonstrates comprehension of interplanetary magnetic fields through successful exploration of activities, 90% and above correctness in activity worksheets, and completion of a technical report detailing the student(s) design.	*Student, through successful completion of activity 3, draws and creates their magnetometer using real world engineering techniques and creates a practical and functioning model NASA satellite that can accurately measure interplanetary magnetic fields. *Student fully demonstrates comprehension of interplanetary magnetic fields through successful exploration of activities, 90% and above correctness in activity worksheets, and completion of a technical report detailing the student(s) design.
Collaborative Worker	Participates but does not successfully complete one or more requirements of Level 2 .	Arrives on time with materials. Shows respect for others; cares for equipment and resources.	Stays focused on assigned task and helps others do the same. Shares work equally.	Facilitates the participation of all in group. Tutors and/or supports other students.	Takes all group roles with equal skill. Assists others as they learn to do the same.