ASSESSMENT

Unit 4 Inquiry Investigation Rubric

CLASS:

BL	Μ	A-55

Achievement Chart Category	Level 1	Level 2	Level 3	Level 4
Knowledge and Understanding	Summarizes information about refraction, mirrors, and lenses as it relates to this task with limited effectiveness.	Summarizes information about refraction, mirrors, and lenses as it relates to this task with some effectiveness.	Summarizes information about refraction, mirrors, and lenses as it relates to this task with considerable effectiveness.	Summarizes information about refraction, mirrors, and lenses as it relates to this task with a high degree of effectiveness.
Thinking and Investigation	Formulates a hypothesis with limited accuracy.	Formulates a hypothesis with some accuracy.	Formulates a hypothesis with considerable accuracy.	Formulates a hypothesis with a high degree of accuracy.
	Creates a model of a light tunnel using appropriate materials safely and accurately, with limited effectiveness.	Creates a model of a light tunnel using appropriate materials safely and accurately, with some effectiveness.	Creates a model of a light tunnel using appropriate materials safely and accurately, with considerable effectiveness.	Creates a model of a light tunnel using appropriate materials safely and accurately, with a high degree of effectiveness.
	Model designed meets the criteria with limited accuracy.	Model designed meets the criteria with some accuracy.	Model designed meets the criteria with considerable accuracy.	Model designed meets the criteria with a high degree of accuracy.
Application	Challenges during the design of the light tunnel are described in limited detail.	Challenges during the design of the light tunnel are described in some detail.	Challenges during the design of the light tunnel are described in considerable detail.	Challenges during the design of the light tunnel are described in thorough detail.
	Identifies the most useful optics components in the light tunnel design with limited accuracy.	Identifies the most useful optics components in the light tunnel design with some accuracy.	Identifies the most useful optics components in the light tunnel design with considerable accuracy.	Identifies the most useful optics components in the light tunnel design with a high degree of accuracy.
Communication	Ray diagrams for the design brief are drawn using proper scientific conventions with limited effectiveness.	Ray diagrams for the design brief are drawn using proper scientific conventions with some effectiveness.	Ray diagrams for the design brief are drawn using proper scientific conventions with considerable effectiveness.	Ray diagrams for the design brief are drawn using proper scientific conventions with a high degree of effectiveness.
	Communicates an explanation for the design brief using appropriate scientific terminology and for an intended audience and purpose with limited effectiveness.	Communicates an explanation for the design brief using appropriate scientific terminology and for an intended audience and purpose with some effectiveness.	Communicates an explanation for the design brief using appropriate scientific terminology and for an intended audience and purpose with considerable effectiveness.	Communicates an explanation for the design brief using appropriate scientific terminology and for an intended audience and purpose with a high degree of effectiveness.

