

Master 4.1

Unit Rubric: Measurement

| | Beginning | Acceptable | Proficient | Mastery |
|---|---|--|---|--|
| Conceptual understanding | | | | |
| Shows understanding of measurement by explaining and/or demonstrating: <ul style="list-style-type: none"> – choice of personal referents for various measures – relationships between cm and m; g and kg – choice of personal referents for various measures – that many shapes are possible for a given perimeter – that two similar objects may have different masses | may be unable to demonstrate or explain: <ul style="list-style-type: none"> – choice of personal referents – relationships between cm/m; g/kg – that many shapes are possible for a given perimeter – that similar objects may have different masses | partially able to demonstrate or explain: <ul style="list-style-type: none"> – choice of personal referents – relationships between cm/m; g/kg – that many shapes are possible for a given perimeter – that similar objects may have different masses | able to demonstrate and explain: <ul style="list-style-type: none"> – choice of personal referents – relationships between cm/m; g/kg – that many shapes are possible for a given perimeter – that similar objects may have different masses | in various contexts; appropriately demonstrates and explains: <ul style="list-style-type: none"> – choice of personal referents – relationships between cm/m; g/kg – that many shapes are possible for a given perimeter – that similar objects may have different masses |
| Procedural knowledge | | | | |
| Accurately relates: <ul style="list-style-type: none"> – seconds to a minute; minutes to an hour; days to a month – cm to m; g to kg – passage of time (standard and non-standard units) – length, width, and height (cm, m) – perimeter (cm, m) – mass (g, kg) | limited accuracy; often makes major errors/omissions in: <ul style="list-style-type: none"> – relating measures of time, length, and mass – measuring time – measuring length, width, height – measuring perimeter – measuring mass | partially accurate; makes frequent minor errors/omissions in: <ul style="list-style-type: none"> – relating measures of time, length, and mass – measuring time – measuring length, width, height – measuring perimeter – measuring mass | generally accurate; makes few errors/omissions in: <ul style="list-style-type: none"> – relating measures of time, length, and mass – measuring time – measuring length, width, height – measuring perimeter – measuring mass | accurate; rarely make errors/omissions in: <ul style="list-style-type: none"> – relating measures of time, length, and mass – measuring time – measuring length, width, height – measuring perimeter – measuring mass |
| Problem-solving skills | | | | |
| Selects and uses appropriate strategies to: <ul style="list-style-type: none"> – estimate time, length, mass, and perimeter – solve problems involving measurement | does not select and use appropriate strategies to successfully: <ul style="list-style-type: none"> – estimate measures – solve problems | with limited help, selects and uses strategies with partial success to: <ul style="list-style-type: none"> – estimate measures – solve problems | selects and uses appropriate strategies to successfully: <ul style="list-style-type: none"> – estimate measures – solve problems | selects and uses appropriate strategies with a high degree of success to: <ul style="list-style-type: none"> – estimate measures – solve problems |
| Communication | | | | |
| Records and explains reasoning and procedures clearly and completely, including appropriate terminology | does not record and explain reasoning and procedures clearly and completely | records and explains reasoning and procedures with partial clarity; may be incomplete | records and explains reasoning and procedures clearly and completely | records and explains reasoning and procedures with precision and thoroughness |