

# MATHEMATICS JOURNAL

## Math Formative Assessment Rubric for **Small Problem 1: Shape and Space**

Achievement Level and Focus Area	1 Beginning ★	2 Developing ★★	3 Achieving ★★★	4 Excelling ★★★★
<b>Our Math</b>	Our work shows that we need more help to understand this math concept	Our work shows some understanding of this math concept	Our work shows that we have a good understanding of this math concept	Our work shows that we have a thorough understanding of this math concept
Solution	<ul style="list-style-type: none"> <li>We still need to solve the problem or our answer is incorrect.</li> </ul>	<ul style="list-style-type: none"> <li>We solved part of the problem correctly or made some small errors.</li> </ul>	<ul style="list-style-type: none"> <li>We solved the problem correctly and labeled our answer.</li> </ul>	<ul style="list-style-type: none"> <li>We solved the problem correctly using an efficient strategy and labeled our answer.</li> </ul>
Explanation	<ul style="list-style-type: none"> <li>We should have included an explanation or description.</li> </ul>	<ul style="list-style-type: none"> <li>Our explanation or description is unclear or incomplete.</li> </ul>	<ul style="list-style-type: none"> <li>Our explanation or description is strong. We used some mathematical vocabulary.</li> </ul>	<ul style="list-style-type: none"> <li>Our explanation or description is very strong. We used precise mathematical vocabulary.</li> </ul>
Record	<ul style="list-style-type: none"> <li>We should have used a drawing or diagram, a graph or an equation to support our thinking.</li> </ul>	<ul style="list-style-type: none"> <li>We attempted to use a drawing or diagram, a graph or an equation to support our thinking.</li> </ul>	<ul style="list-style-type: none"> <li>We used a clear drawing or diagram, a graph, or an equation to support our thinking.</li> </ul>	<ul style="list-style-type: none"> <li>We used a very clear drawing or diagram, a graph, or an equation to support our thinking.</li> </ul>
<b>My Skills</b>	<p><b>Thinking</b></p> <p>Comprehension</p> <ul style="list-style-type: none"> <li>I can understand what we are learning about when it is shown or explained to me.</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>I can follow someone else's demonstration.</li> </ul> <p>Metacognition</p> <ul style="list-style-type: none"> <li>I can listen to others say what they are thinking.</li> </ul> <p>Group decision-making</p> <ul style="list-style-type: none"> <li>I listen to others.</li> </ul>	<p>Comprehension</p> <ul style="list-style-type: none"> <li>I have understood what we are learning about.</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>I need some help to apply what I have learned.</li> </ul> <p>Metacognition</p> <ul style="list-style-type: none"> <li>I can say what I am thinking.</li> </ul> <p>Group decision-making</p> <ul style="list-style-type: none"> <li>I listen to others and discuss ideas.</li> </ul>	<p>Comprehension</p> <ul style="list-style-type: none"> <li>I have understood what we are learning about and I can communicate it.</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>I can apply what I have learned.</li> </ul> <p>Metacognition</p> <ul style="list-style-type: none"> <li>I can say what I think and explain how I think.</li> </ul> <p>Group decision-making</p> <ul style="list-style-type: none"> <li>I listen to others, discuss ideas and ask questions.</li> </ul>	<p>Comprehension</p> <ul style="list-style-type: none"> <li>I have understood what we are learning about. I can communicate my understanding of it.</li> </ul> <p>Application</p> <ul style="list-style-type: none"> <li>I can apply what I have learned in new situations and help others too.</li> </ul> <p>Metacognition</p> <ul style="list-style-type: none"> <li>I can explain our thinking and how we think.</li> </ul> <p>Group decision-making</p> <ul style="list-style-type: none"> <li>I listen to others, discuss ideas and ask questions. I can work towards and reach a consensus with my group.</li> </ul>
<b>Self-Management</b>	<p>Organisation</p> <ul style="list-style-type: none"> <li>I begin solving the problem straight away.</li> </ul> <p>Time Management</p> <ul style="list-style-type: none"> <li>I can follow time plans and observe others finding a solution.</li> </ul> <p>Codes of Behaviour</p> <ul style="list-style-type: none"> <li>I can work in a group with some help from others.</li> </ul>	<p>Organisation</p> <ul style="list-style-type: none"> <li>I plan out the steps before I begin.</li> </ul> <p>Time Management</p> <ul style="list-style-type: none"> <li>I need some help to focus or find an accurate solution.</li> </ul> <p>Codes of Behaviour</p> <ul style="list-style-type: none"> <li>I can suggest how we should work in a group.</li> </ul>	<p>Organisation</p> <ul style="list-style-type: none"> <li>I plan and carry out the steps.</li> </ul> <p>Time Management</p> <ul style="list-style-type: none"> <li>I worked to achieve an accurate solution.</li> </ul> <p>Codes of Behaviour</p> <ul style="list-style-type: none"> <li>I can work effectively in a group.</li> </ul>	<p>Organisation</p> <ul style="list-style-type: none"> <li>I plan and carry out the steps effectively.</li> </ul> <p>Time Management</p> <ul style="list-style-type: none"> <li>I am focussed and succeeded with a accurate solution in minimum time.</li> </ul> <p>Codes of Behaviour</p> <ul style="list-style-type: none"> <li>I help myself and others to work effectively in a group.</li> </ul>
<b>My Attitudes</b>	Circle which sentences are true for the Math task:	Circle which sentences are true for the Math task:	Circle which sentences are true for the Math task:	Circle which sentences are true for the Math task:
Commitment	I am committed to learning what I need to in Math. I persevere to solve the problem. I show self-discipline to stay focussed and work with others. I show responsibility to others and my Math.	I am committed to learning what I need to in Math. I persevere to solve the problem. I show self-discipline to stay focussed and work with others. I show responsibility to others and my Math.	I am committed to learning what I need to in Math. I persevere to solve the problem. I show self-discipline to stay focussed and work with others. I show responsibility to others and my Math.	I am committed to learning what I need to in Math. I persevere to solve the problem. I show self-discipline to stay focussed and work with others. I show responsibility to others and my Math.
Confidence	I feel confident in my Math ability and my skills. I take risks to try new strategies. I apply the Math I have learned as soon as I can. I make good choices and decisions in Math and in a group.	I feel confident in my Math ability and my skills. I take risks to try new strategies. I apply the Math I have learned as soon as I can. I make good choices and decisions in Math and in a group.	I feel confident in my Math ability and my skills. I take risks to try new strategies. I apply the Math I have learned as soon as I can. I make good choices and decisions in Math and in a group.	I feel confident in my Math ability and my skills. I take risks to try new strategies. I apply the Math I have learned as soon as I can. I make good choices and decisions in Math and in a group.
Cooperation	I work cooperatively. I use my manners. I share materials. I take turns. I work out the Math steps with my partners. I work out a Math solution with my partners. I lead kindly. I follow well.	I work cooperatively. I use my manners. I share materials. I take turns. I work out the Math steps with my partners. I work out a Math solution with my partners. I lead kindly. I follow well.	I work cooperatively. I use my manners. I share materials. I take turns. I work out the Math steps with my partners. I work out a Math solution with my partners. I lead kindly. I follow well.	I work cooperatively. I use my manners. I share materials. I take turns. I work out the Math steps with my partners. I work out a Math solution with my partners. I lead kindly. I follow well.
Creativity	I am creative in thinking about a Math solution. I am creative in working out how to solve the Math problem. I am creative in working out how to solve any problems within our group.	I am creative in thinking about a Math solution. I am creative in working out how to solve the Math problem. I am creative in working out how to solve any problems within our group.	I am creative in thinking about a Math solution. I am creative in working out how to solve the Math problem. I am creative in working out how to solve any problems within our group.	I am creative in thinking about a Math solution. I am creative in working out how to solve the Math problem. I am creative in working out how to solve any problems within our group.