#### oMath (Office Open [XML](XML.docx) Math)

This element specifies that this run contains WordprocessingML which shall be handled as though it was Office Open [XML](XML.docx) Math.

[Rationale: Like other run properties may be applied to the glyph representing the paragraph mark, it is possible to create an Office Open [XML](XML.docx) Math [equation](equation.docx) on an empty paragraph as well. Since that paragraph mark must be defined by WordprocessingML, it is not possible to store the paragraph using the Office Open [XML](XML.docx) Math markup. Instead, this run property is stored on the paragraph mark's run properties to indicate that the paragraph mark is part of an Office Open [XML](XML.docx) Math equation. For example, the first paragraph below is stored as Office Open [XML](XML.docx) Math:



The paragraph must be a [p](p.docx) (§) element, but that would mean the data loss of the Math markup when saving as a WordprocessingML package. In order to prevent that data loss, this property stores the Math property as a run property. end rationale]

If this element is not present, the default value is to leave the formatting applied at previous level in the style hierarchy. If this element is never applied in the style hierarchy, then this run shall not be treated as Office Open [XML](XML.docx) Math.

This property may be applied to any run, but that should only introduce the semantic that the run is math in the user interface, and shall not change the appearance of the text.

[Example: Consider a paragraph in WordprocessingML where the paragraph mark glyph (the pilcrow mark - ¶) has been formatted as Math. Since this mark is not an actual run, it cannot be written out in the Office Open [XML](XML.docx) Math syntax, and must be written out as a property on the actual run as follows:

<w:[pPr](pPr.docx)>  
 <w:[rPr](rPr.docx)>  
 <w:oMath />  
 </w:[rPr](rPr.docx)>  
</w:[pPr](pPr.docx)>

This property is therefore used to roundtrip the math setting on this paragraph mark character. end example]

|  |
| --- |
| Parent Elements |
| [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§); [rPr](rPr.docx) (§) |

|  |  |
| --- | --- |
| Attributes | Description |
| val (On/Off Value) | Specifies a binary value for the property defined by the parent [XML](XML.docx) element.  A value of on, 1, or true specifies that the property shall be explicitly applied. This is the default value for this attribute, and is implied when the parent element is present, but this attribute is omitted.  A value of off, 0, or false specifies that the property shall be explicitly turned off.  [Example: For example, consider the following on/off property:  <w:… w:val="off"/>  The val attribute explicitly declares that the property is turned off. end example]  The possible values for this attribute are defined by the [ST\_OnOff](ST_OnOff.docx) simple [type](type.docx) (§). |

The following [XML](XML.docx) Schema fragment defines the contents of this element:

<complexType [name](name.docx)="CT\_OnOff">

<attribute [name](name.docx)="val" [type](type.docx)="[ST\_OnOff](ST_OnOff.docx)"/>

</complexType>