[gas] is blown against a [surface]  [granules] are blown across a [surface]

[granules] are brushed against a [surface]  [granules] are dropped onto a [surface] from a great height

[granules] are dropped onto a [surface]  [granules] are ground into a [surface] with maximum force

[granules] are ground into a [surface]  [granules] are placed onto a [surface]
[granules] are poured onto a [surface]

[granules] are scattered over a [surface]

[granules] are thrown against a [surface]

[liquid] is spattered against a [surface]

[liquid] is applied to a [surface] over its entire area

[liquid] is applied to a [surface]

[liquid] is applied to an enclosed area on a [surface]

[liquid] is brushed across a [surface] in a series of parallel lines
[liquid] is brushed across a [surface]

[liquid] is dripped onto a [surface] from a great height

[liquid] is dripped onto a [surface]

[liquid] is poured onto a [surface] from a great height

[liquid] is poured onto a [surface]

[liquid] is sprayed onto a [surface]

a [surface] is attached to a [surface]

a [surface] is brushed along its edge
a [surface] is brushed over its entire area

a [surface] is brushed with an [object]

a [surface] is brushed

a [surface] is compressed with maximum force

a [surface] is compressed

a [surface] is creased a number of times

a [surface] is creased

a [surface] is creased along a marked line

a [surface] is creased around the outline of an [object]
a [surface] is creased

a [surface] is crumpled and then uncrumpled

a [surface] is crumpled into a ball

a [surface] is crumpled

a [surface] is cut around the outline of an [object]

a [surface] is cut from an edge to a central point

a [surface] is cut from one corner to another corner

a [surface] is cut from one corner to its centre in a spiral motion
a [surface] is cut from one edge to another edge

a [surface] is cut from one edge to near the opposite edge

da [surface] is cut from one point to another point

a [surface] is cut into as many [surfaces] as possible

a [surface] is cut such that it is divided into a number of equal [surfaces]

a [surface] is cut using a sequence of equal-length cuts

a [surface] is cut from a [surface]

a [surface] is detached from a [surface]
a [surface] is dragged across a [surface] such that there is minimal contact

a [surface] is dragged along the edge of a [surface] such that there is minimal contact

a [surface] is dropped into [liquid]

a [surface] is dropped onto [granules]

a [surface] is dropped onto a [surface] from a great height
a [surface] is dropped onto an [object]

a [surface] is flattened with an [object]

a [surface] is folded a number of times

a [surface] is folded along a marked line

a [surface] is folded around the outline of an [object]

a [surface] is folded into an equal number of parts
a [surface] is folded in half as many times as possible

a [surface] is folded and then unfolded until it is no longer possible to create a fold which does not touch a previous fold

a [surface] is grated with maximum pressure

a [surface] is ground between an [object] and a [surface]

a [surface] is ground between other [surfaces]

a [surface] is ground between two [objects]
a [surface] is ground with maximum pressure

a [surface] is immersed in [liquid]

a [surface] is marked around the outline of an [object]

a [surface] is marked such that it is divided into a number of equal areas

a [surface] is marked with a single line such that the line fills the [surface]

a [surface] is marked with separate lines joining opposite edges with the greatest possible density

a [surface] is placed on a [surface]
a [surface] is placed on an [object]

a [surface] is pleated

a [surface] is pressed into a hole in a [surface]

a [surface] is pressed over [granules]

a [surface] is pressed over an [object]

a [surface] is pressed with an [object]

a [surface] is pressed

a [surface] is pulped
a [surface] is pushed across a [surface]

a [surface] is pushed along the edge of a [surface]

a [surface] is pushed over [granules]

a [surface] is pushed over an [object]

a [surface] is removed from [liquid]

a [surface] is rolled up as tightly as possible

a [surface] is rolled up

a [surface] is rubbed with [granules]
a [surface] is rubbed with a [surface]
a [surface] is rubbed with an [object]

a [surface] is sawn around the outline of an [object]
a [surface] is sawn from an edge to a central point

a [surface] is sawn from one corner to another corner

a [surface] is sawn from one edge to another edge in a zig-zag

a [surface] is sawn from one edge to near the opposite edge

a [surface] is sawn from one point to another point
a [surface] is sawn
into as many [surfaces] as possible

a [surface] is sawn
such that it is divided into a number of equal [surfaces]

a [surface]
is sawn
with maximum pressure

a [surface] is sawn
is scored
around the outline of an [object]

a [surface]
is scored
from one edge to another edge

a [surface]
is scored
such that it is divided into an equally spaced grid

a [surface]
is scored
such that it is divided into a number of equal areas
A [surface] is scored with separate lines joining opposite edges with the greatest possible density.

A [surface] is scoured with maximum pressure.

A [surface] is scoured around the outline of an [object].

A [surface] is scraped with [granules].

A [surface] is scratched with a [surface].

A [surface] is scratched with an [object].
a [surface] is scratched with the edge of an [object]

a [surface] is scratched with the point of an [object]

a [surface] is scratched

a [surface] is scrunched into a ball

a [surface] is scrunched

a [surface] is scythed

a [surface] is scythed from one edge to the opposite edge

a [surface] is shaded
a [surface] is shaded

a [surface] is shaved off of a [surface]

a [surface] is shaved

a [surface] is shredded with maximum force

a [surface] is shredded

a [surface] is sliced into the smallest possible slices

a [surface] is sliced

a [surface] is slitted until it is no longer possible to make another slit
a [surface] is slitted

a [surface] is sprayed with [granules]

a [surface] is stretched
simultaneously in two directions

a [surface] is stretched
until it becomes
more than one [surface]

a [surface] is stretched

a [surface] is suspended

a [surface] is tensioned

a [surface] is thrown
a [surface] is tied to a [surface]  
a [surface] is tied to an [object]

a [surface] is torn around the outline of an [object]

a [surface] is torn from an edge to a central point  
a [surface] is torn from one corner to another corner

a [surface] is torn from one corner to its centre in a spiral motion  
a [surface] is torn from one edge to another edge
a surface is torn from one edge to near the opposite edge

a surface is torn from one point to another point

a surface is torn into as many surfaces as possible

a surface is torn such that it is divided into a number of equal surfaces

a surface is torn to make the longest tear possible

a surface is torn using a sequence of connected equal-length tears

a surface is torn using a sequence of very short connected tears parallel to the plane of the surface

a surface is twisted until it is not possible to twist the surface further
a [surface] is twisted

a [surface] is unrolled completely

a [surface] is unrolled

a [surface] is wiped across its entire area

a [surface] is wiped with an [object]

a [surface] is wiped

a circle is marked on a [surface]

a [surface] is wrapped with a [surface]
a circle is scored into a [surface]  
a circle is torn out of a [surface]

a curved line is marked  
on a [surface]  
a curved line is scored  
into a [surface]

a curved line on a [surface] is cut  
a fold in a [surface] is cut

a fold in a [surface] is marked  
a fold in a [surface] is sawn
a fold in a [surface] is scored  a fold in a [surface] is torn

a hole is punched out of a [surface]  a layer is peeled from a [surface]

a line is scored into a [surface]  a line is scratched into a [surface]

a line is traced on a [surface]  a line joining two points is marked on a [surface]
a line joining two points is scored into a [surface]

a line on a [surface] is traced

a line on a [surface] is cut

a line is marked on a [surface]

a number of [objects] are dropped onto a [surface]

from a great height

a number of [objects] are dropped onto a [surface]

a number of dots are marked in an enclosed area on a [surface]

a number of dots are marked on a [surface]
a number of enclosed areas are marked on a [surface]  
a number of enclosed areas are scored into a [surface]

a number of intersecting lines are marked on a [surface]  
a number of intersecting lines are scored into a [surface]

a number of lines are marked on a [surface]  
a number of lines are scored into a [surface]

a number of lines of increasing length are scored into a [surface]  
a number of parallel lines are scored into a [surface]
a number of parallel lines are marked on a [surface]
a number of points are marked on a [surface]

a number of short slits are cut along one edge of a [surface]
a number of short slits of increasing length are cut along one edge of a [surface]

a point is marked on a [surface]
a square is cut out of a [surface]

a square is marked on a [surface]
a square is scored into a [surface]
a square is torn out of a [surface]
a strip is peeled from a [surface]
a zig-zag line joining one edge to another edge is marked on a [surface]
an [object] is attached to a [surface]
an [object] is detached from a [surface]
an [object] is dragged across a [surface] with maximum pressure
an [object] is dragged across a [surface] with minimum pressure
an [object] is dragged across a [surface]
an [object] is dragged along the edge of a [surface]

an [object] is dropped onto a [surface] a number of times

an [object] is dropped onto a [surface]
from a great height

an [object] is placed on a [surface]

an [object] is pushed across a [surface] with maximum pressure

an [object] is pushed across a [surface] with minimum pressure
an [object] is pushed
along the edge of a [surface]

an [object] is thrown
against a [surface]

an [object] is tied to a [surface]

an [object] is wrapped
with a [surface]

an area is cut out of a [surface]

an area is punched out
of a [surface]

an area is torn out of a [surface]

an area on a [surface]
is scratched with an [object]
an area on a [surface] is scratched
with maximum pressure

an area between
a number of points
on a [surface] is scratched

an area between two lines
on a [surface] is scraped

an area between two lines
on a [surface] is shaded

an area between a number of points
on a [surface] is shaded

an enclosed area
is marked on a [surface]
an enclosed area on a [surface] is marked with parallel lines until no more lines can be marked

an enclosed area is cut out of a [surface]

an enclosed area is peeled from a [surface]

an enclosed area is sawn out of a [surface]

an enclosed area is scored into a [surface]

an enclosed area is torn out of a [surface]

an enclosed area on a [surface] is rubbed

an enclosed area on a [surface] is scraped
an enclosed area on a [surface] is scratched

an enclosed area on a [surface] is shaded

as many circles as possible are cut from a [surface]

as many circles as possible are marked on a [surface]

as many holes as possible are punched out of a [surface]

as many holes as possible are punched out of an enclosed area on a [surface]

as many rectangles as possible are cut from a [surface]

as many rectangles as possible are marked on a [surface]
| as many small slits as possible are cut along one edge of a [surface] | holes forming a line are punched out of a [surface] |
| holes forming a regular grid are punched out of a [surface] | imperfections on a [surface] are marked such that they are connected by lines |
| imperfections on a [surface] are scratched such that they disappear | imperfections on a [surface] are marked |
| part of a [surface] is attached to part of a [surface] | strips are cut from a [surface] |
strips are sawn from a [surface]  
the side of an [object] is pushed across a [surface]

strips are torn from a [surface]  
strips are shaved from a [surface]

the edge of a [surface] is filed with maximum force  
the edge of a [surface] is filed

the edge of a [surface] is grated with maximum force  
the edge of a [surface] is grated
the edge of a [surface] is pushed across a [surface]
the edge of a [surface] is scraped along its entire length

the edge of a [surface] is whittled
the edge of an [object] is dragged across a [surface] with maximum pressure

the edge of an [object] is dragged across a [surface] with minimum pressure
the edge of an [object] is dragged across a [surface]

the edge of an [object] is pushed across a [surface] with maximum pressure
the edge of an [object] is pushed across a [surface] with minimum pressure
the edge of an [object] is pushed across a [surface]

the edge of an [object] is pushed along the edge of a [surface]

the outline of a [surface] is traced on a [surface]

the outline of a hole is cut out of a [surface]

the outline of a hole is marked on a [surface]

the outline of a smaller [surface] is marked on a larger [surface]

the outline of a smaller [surface] is scored into a larger [surface]

the outline of an [object] is marked on a [surface]
<table>
<thead>
<tr>
<th>the outline of an [object] is traced on a [surface]</th>
<th>the outline of an enclosed area is traced on a [surface]</th>
</tr>
</thead>
<tbody>
<tr>
<td>the point of an [object] is dragged across a [surface]</td>
<td>the point of an [object] is pushed through a [surface]</td>
</tr>
<tr>
<td>the point of an [object] is pushed across a [surface]</td>
<td>the side of an [object] is dragged across a [surface] with maximum pressure</td>
</tr>
<tr>
<td>the side of an [object] is dragged across a [surface] with minimum pressure</td>
<td>the side of an [object] is dragged across a [surface]</td>
</tr>
</tbody>
</table>
the side of an [object] is pushed across a [surface] with maximum pressure
the side of an [object] is pushed across a [surface] with minimum pressure

closely spaced holes are drilled into a [surface]
a [surface] is drilled

surfaces is part of on the sonic properties of materials and was written for Simon Limbrick.

(version 14.11.11)

actions are completed in any sequence or combination
actions are applied repeatedly to the available materials
all actions may occur at one of three speeds:
as fast as possible
as slowly as possible
at a comfortable rate
actions may be continuous or discontinuous
duration is free

surfaces (2010-11)
James Saunders