

Auxiliary Schedule AM1

For subdivision of a mathematical system or any applicable mathematical concept.

See section 10 of the mathematics introduction for a fuller explanation of this schedule.

In essence, numbers and letters –2/–9, –A/–F introduce qualifications of the concept concerned, i.e. any facet relationship other than a type; letter –G is reserved for enumeration of subclasses special to the concept; letters –H/–W introduce specifications of the concept, i.e. types (species) of it.

Add to – (where – represents the classmark of the system or other concept) as follows:

<p>Common subdivisions</p> <p>-2 * Add to -2 numbers 2/9 from Auxiliary Schedule 1, with modifications as at AM2. Add to -2 letters A/J following AM2.</p> <p><i>Agents</i></p> <p>-2L * Add to -2 letters L/Y following AM2.</p> <p><i>Forms of mathematical presentation</i></p> <p>-3 * Add to -3 numbers & letters 4/9, A/L following AM3.</p> <p><i>Methodologies</i></p> <p>-3M * Add to -3 letters M/W following AM3. * Add to -4 numbers & letters 2/9, A/Y following AM4.</p> <p>-5 * Add to -5 numbers & letters 2/9, A/Y following AM5.</p> <p>-6 * Add to -6 numbers & letters 2/9, A/Y following AM6.</p> <p>-7 * Add to -7 numbers 2/4N following AM7.</p> <p><i>Operations</i></p> <p>-74P * Add to -7 numbers & letters 4P/9, A/Y following AM7.</p> <p>-8 * Add to -8 numbers 2/5N following AM8.</p> <p><i>Processes</i></p> <p>-85P * Add to -8 numbers & letters 5P/9, A/H following AM8.</p> <p><i>Relations</i></p> <p>-8J * Add to -8 letters J/Y following AM8.</p> <p>-9 * Add to -9 numbers & letters 2/9, A/Y following AM9.</p> <p>-A * Add to -A letters B/L following AM.</p> <p><i>Properties</i></p> <p>-AN * Add to -A letters N/Y following AM.</p> <p>-B * Add to -B numbers & letters 2/9, A/Y following AN.</p> <p>-C * Add to -C numbers & letters 2/9, A/Y following AO.</p> <p>-D * Add to -D numbers 2/8 following AP.</p> <p><i>Parts</i></p> <p><i>Elements</i></p> <p>-DA * Add to -D letters A/Y following AP.</p> <p>-E * Add to -E numbers & letters 2/9, A/D following AQ.</p> <p><i>Entities</i></p> <p>-EE * Add to -E letters E/Y following AQ.</p> <p><i>Subsystems</i></p> <p>-F * Add to -F letters R/W following A.</p>	<p><i>Parts special to a concept</i></p> <p>-G * Numbers & letters 2/9, A/W following -G are reserved for these.</p> <p><i>Types</i></p> <p><i>By form of mathematical presentation</i></p> <p>-H * Add to -H numbers & letters 4/9, A/L following AM3.</p> <p><i>By Methodology</i></p> <p>-HM * Add to -H letters M/W following AM3.</p> <p>-HX * Add to -HX numbers & letters 2/9, A/Y following AM4.</p> <p>-HY * Add to -HY numbers & letters 5/9, A/Y following AM5.</p> <p>-I * Add to -I numbers & letters 2/9, A/Y following AM6.</p> <p>-J * Add to -J numbers 2/4N following AM7.</p> <p><i>By Operation</i></p> <p>-J4P * Add to -J numbers & letters 4P/9, A/Y following AM7.</p> <p>-K * Add to -K numbers 2/5N following AM8.</p> <p><i>By Process</i></p> <p>-K5P * Add to -K numbers & letters 5P/9, A/H following AM8.</p> <p><i>By Relation</i></p> <p>-KJ * Add to -K letters J/Y following AM8.</p> <p>-L * Add to -L numbers & letters 2/9, A/Y following AM9.</p> <p>-M * Add to -M letters B/L following AM.</p> <p><i>By Property</i></p> <p>-MN * Add to -M letters N/Y following AM.</p> <p>-N * Add to -N numbers & letters 2/9, A/Y following AN.</p> <p>-O * Add to -O numbers & letters 2/9, A/Y following AO.</p> <p>-P * Add to -P numbers 2/8 following AP.</p> <p><i>By Part</i></p> <p><i>By Element</i></p> <p>-PA * Add to -P letters A/Y following AP.</p> <p>-Q * Add to -Q numbers & letters 2/9, A/D following AQ.</p> <p><i>By Entity</i></p> <p>-QE * Add to -Q letters E/Y following AQ.</p> <p><i>By Branch, System</i></p> <p>-R * Add to - letters R/W following A.</p>
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PTO

(cont.)

-Y Applications

- * Alternative (not recommended) for libraries wishing to interfile applied mathematics with specific topics in pure mathematics.
- * Where the class whose applications are to be collected is spread over 2 or more classmarks, add -Y to the last classmark; e.g. combinatorics is ARD/ARH so applications of would be ARH Y.
- * Where Y or an earlier letter has been used for another (i.e. the next) class, add Applications to the last available classmark; e.g. Fourier analysis is AWT, but AWT Y is used for another class. So AWT X would be used for applications of Fourier analysis.

Examples:

Arithmetic is ARI; Addition (an Operation) is AM7J; so qualification of Arithmetic by the operation would give Arithmetic addition ARI 7J.

Categories is ASX; to specify this class by the operation 'Addition' the intercalator 'J' is used to give ASX JJ Additive categories. That is, 'Addition' as an Operation is shown by adding 7J (dropping the AM in AM7J), but 'Additive' (the same Operation acting as a specifier is shown by JJ (replacing the AM7 in AM7 by J).

Another example is Lie groups (ASJ/ASK X). In this case since X is already used in part, the Y would be added to that, giving Applications of Lie groups ASK XY. It may be necessary, in rare cases, to use Z (which is otherwise not used in AM/AW); e.g. if Lie groups had used ASK X up to division ASK XZ. The essential point is that Applications file at the end of the class so qualified and before the next class.