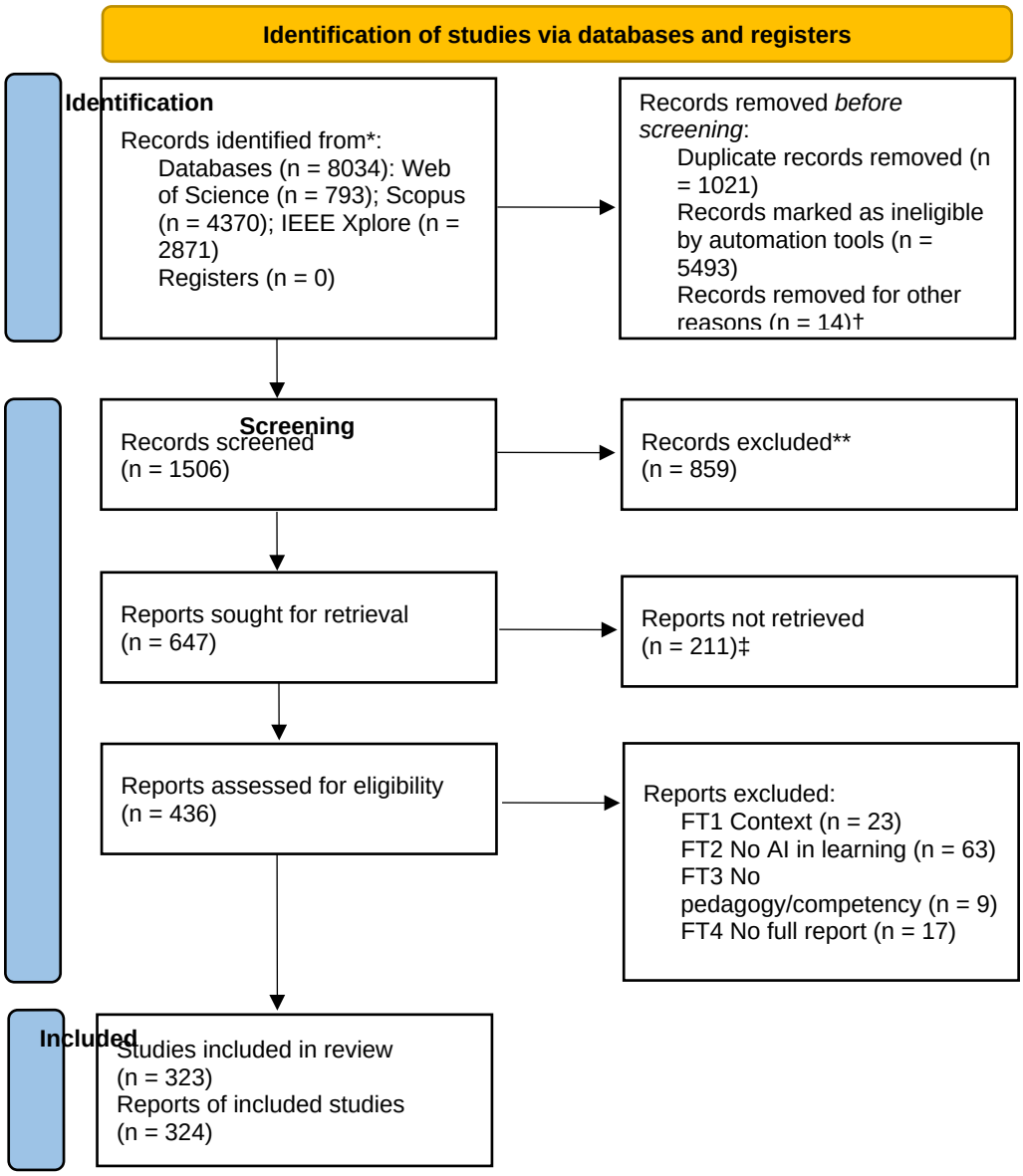
PRISMA 2020 flow diagram for new systematic reviews which included searches of databases and registers only



*Databases searched: Web of Science Core Collection (7 October 2026), Scopus and IEEE Xplore (31 October 2026). † Web of Science document-type and language limits (n = 12); retracted publications (n = 2). Records marked as ineligible by automation tools: Scopus (n = 3031) and IEEE Xplore (n = 2462) records in which the query terms matched only index terms, not the title, abstract or author keywords (script validated on the Web of Science corpus and on an independently screened random sample of 300 removed records; Table S4b). Duplicates: Scopus (n = 627), IEEE Xplore (n = 394).

**No record was excluded by an AI model alone. Each record was screened independently by one author and by an AI model (Claude, Anthropic); 46 disagreements were arbitrated by a third author. Exclusion reasons: E1 not about education (n = 33); E2 K-12 or non-STEM population (n = 183); E3 AI absent, peripheral or only the subject taught (n = 509); E4 no experiential pedagogy or transversal competency (n = 122); E5 ineligible publication type (n = 12). ‡ Mainly conference papers without institutional subscription access (WoS n = 75; Scopus/IEEE Xplore n = 136). Full-text exclusions: FT1 not tertiary STEM/STEAM context; FT2 AI not used in teaching/learning; FT3 no experiential pedagogy or transversal competency; FT4 not a usable full report.

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Source: Page MJ, et al. BMJ 2021;372:n71. doi: 10.1136/bmj.n71.

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