

| Adult learning theory of Andragogy | Science methods course themes aligned with the idea of Andragogy | Practice examples |
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| Adults are self-directed learners (planning, organizing, controlling, and assessing individual learning). | A focus on experiential learning projects that allow adult learners to plan and document their learning using flexible formats. | Phenomena for NGSS |
| Adults have presumably rich life experiences which are resourceful in the learning process. | Activities that allow adult learners to build off their experiences and use familiar resources to engage in science. | Nature Journaling |
| Adults are more problem centered than subject centered. | Activities that help adult learners explore, document, and analyze local phenomena, and use them to plan and implement K-5 science. | <ul style="list-style-type: none"> • Nature Journaling • Phenomena for NGSS |
| Adults are mostly driven by internal motivation. | Activities that encourage individual choice, flexibility, and interests. Projects that help learners connect with their interests, resources, students, and communities. | <ul style="list-style-type: none"> • Phenomena for NGSS • Nature Journaling • Citizen science |
| Adults need to know the reason to learn something. | Activities that allow adult learners to foster connections and discussions with their peers. | <ul style="list-style-type: none"> • Phenomena for NGSS • Nature Journaling • Citizen science |