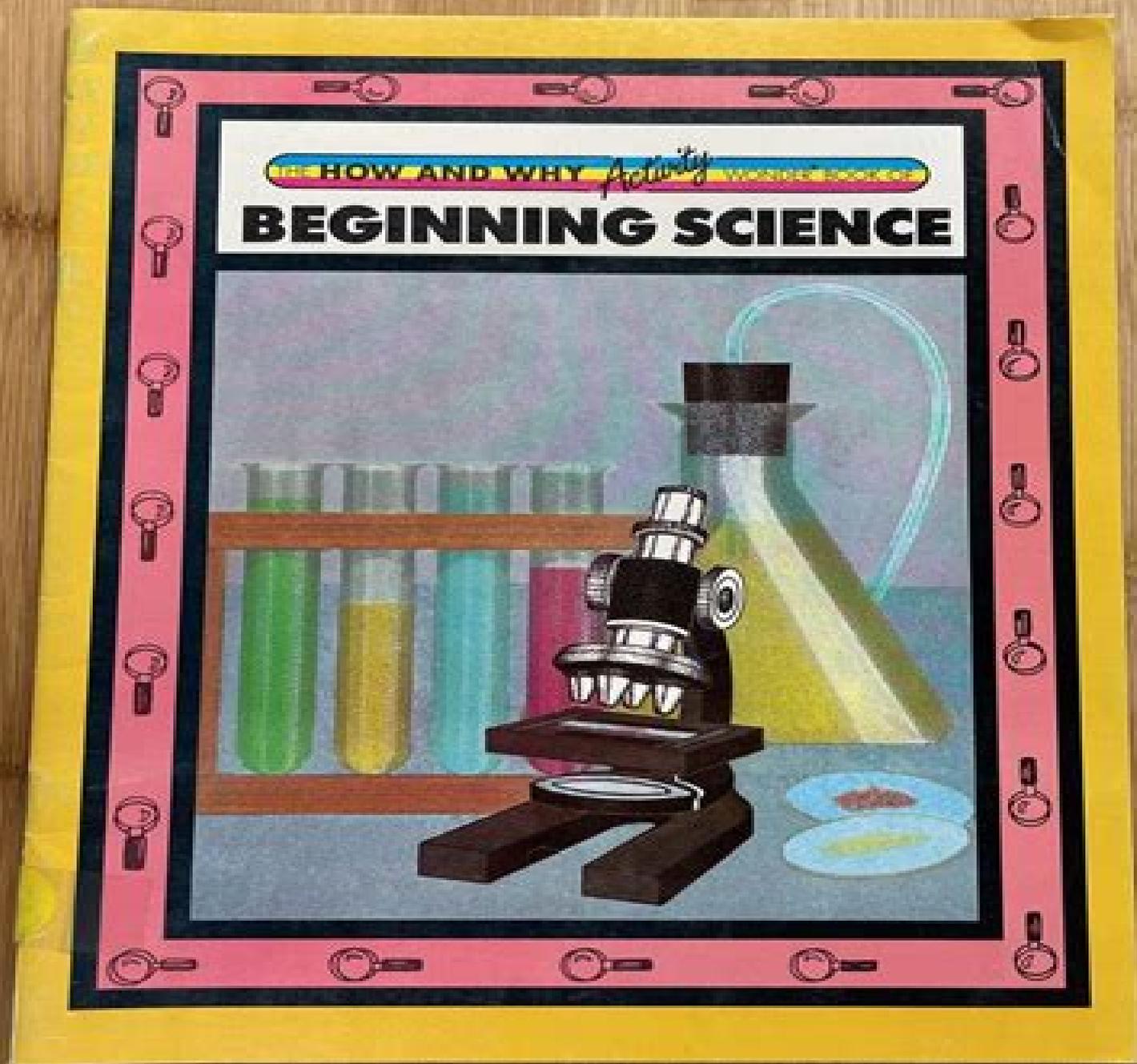
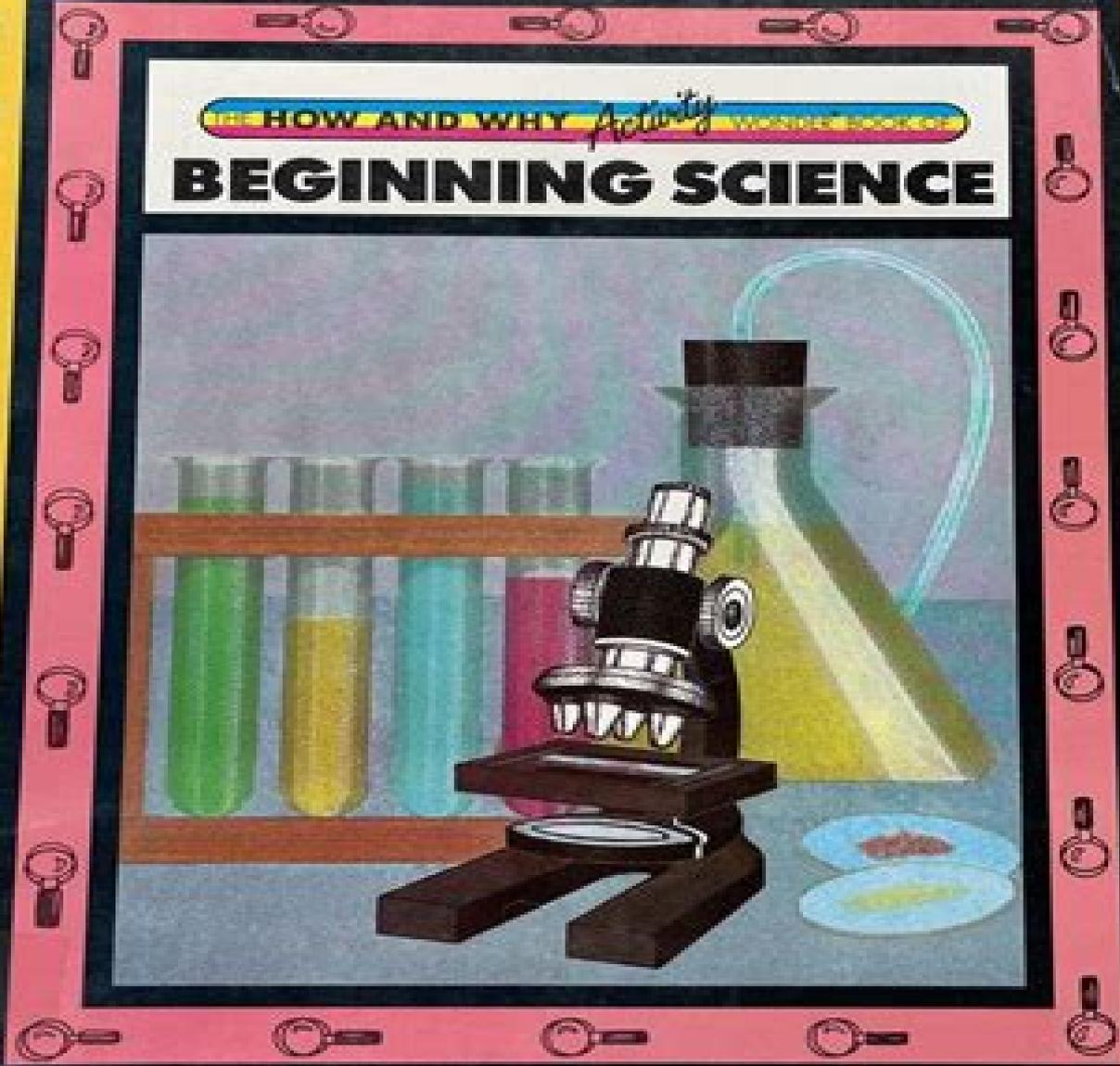
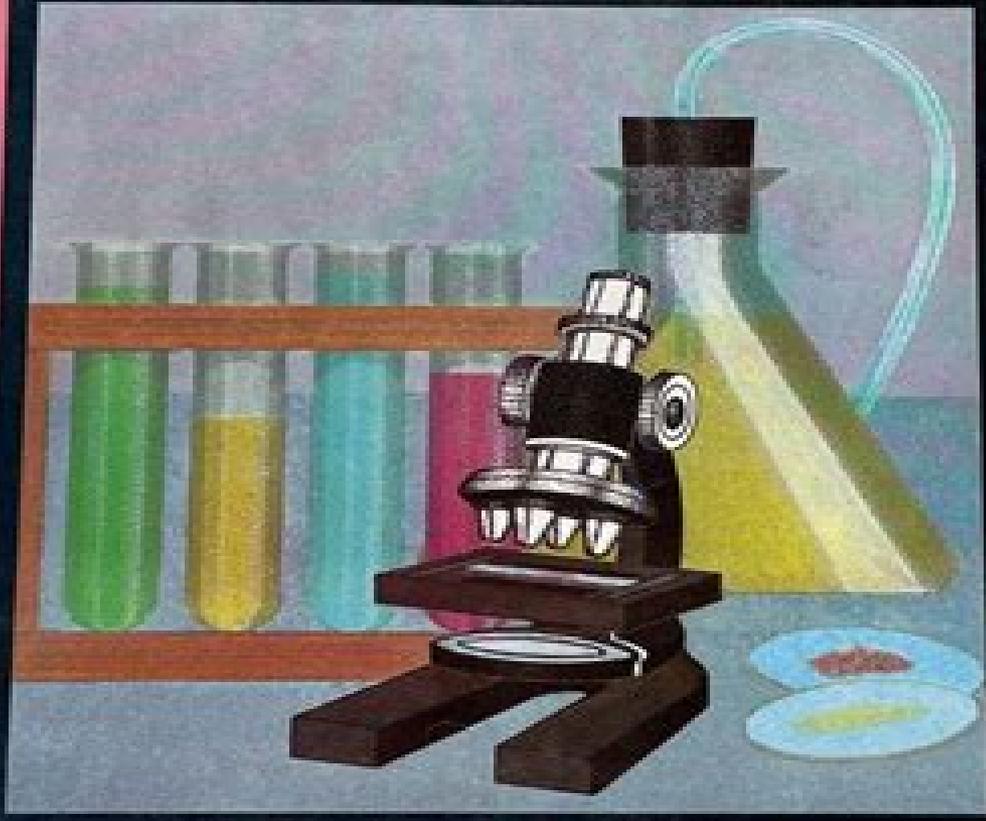


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Handbook of Research on Science Education Sandra K. Abell, Norman G. Lederman, 2013-03-07 This state of the art research Handbook provides a comprehensive coherent current synthesis of the empirical and theoretical research concerning teaching and learning in science and lays down a foundation upon which future research can be built The contributors all leading experts in their research areas represent the international and gender diversity that exists in the science education research community As a whole the Handbook of Research on Science Education demonstrates that science education is alive and well and illustrates its vitality It is an essential resource for the entire science education community including veteran and emerging researchers university faculty graduate students practitioners in the schools and science education professionals outside of universities The National Association for Research in Science Teaching NARST endorses the Handbook of Research on Science Education as an important and valuable synthesis of the current knowledge in the field of science education by leading individuals in the field For more information on NARST please visit <http://www.narst.org>

Mentoring Science Teachers in the Secondary School Saima Salehjee, 2020-12-14 This practical guide helps mentors of new science teachers in both developing their own mentoring skills and providing the essential guidance their trainees need as they navigate the rollercoaster of the first years in the classroom Offering tried and tested strategies based on the best research it covers the knowledge skills and understanding every mentor needs and offers practical tools such as lesson plans and feedback guides observation sheets and examples of dialogue with trainees Together with analytical tools for self evaluation this book is a vital source of support and inspiration for all those involved in developing the next generation of outstanding science teachers Key topics explained include Roles and responsibilities of mentors Developing a mentor mentee relationship Guiding beginning science teachers through the lesson planning teaching and self evaluation

processes Observations and pre and post lesson discussions and regular mentoring meetings Supporting beginning teachers to enhance scientific knowledge and effective pedagogical practices Building confidence among beginning teachers to cope with pupils contingent questions and assess scientific knowledge and skills Supporting beginning teachers planning and teaching to enhance scientific literacy and inquiry among pupils Developing autonomous science teachers with an attitude to promote the learning of science for all the learners Filled with tried and tested strategies based on the latest research Mentoring Science Teachers in the Secondary School is a vital guide for mentors of science teachers both trainee and newly qualified with ready to use strategies that support and inspire both mentors and beginning teachers alike

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