



Física y química. Complementos de formación disciplinar (Spanish Edition)

Manuel Trave, Jordi Solbes, Ángel Messeguer, María Sagrario Gutiérrez Julián, Ana María Wamba, Amparo Vilches, Miguel Ángel Gómez Crespo, Ana Rivero, Daniel Gil, Emilio Pedrinaci

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El presente volumen tiene como objetivo dar a conocer la naturaleza de la ciencia, la historia de la física y de la química, sus desarrollos recientes y campos de aplicación, así como los problemas ambientales actuales y las acciones que se pueden desarrollar para la construcción de un futuro sostenible. En este volumen se analiza el currículo actual de las materias Física y Química de la educación secundaria obligatoria, y el currículo de estas materias y de Ciencias para el mundo contemporáneo en el bachillerato. Asimismo, se propone el enfoque didáctico más apropiado para enseñanza de cada una de estas asignaturas.

Temas centrales:

Naturaleza de la ciencia y construcción del conocimiento científico. Historia de la física y enseñanza de la Física. Historia de la química y enseñanza de la Química. Fronteras del conocimiento y de la investigación en física. Fronteras del conocimiento y de la investigación en química. Problemas ambientales y sostenibilidad. Las ciencias en la ESO desde la perspectiva de la alfabetización científica. La Química en el bachillerato: por una química en contexto. La Física en el bachillerato: por una física más atractiva. Las Ciencias para el mundo contemporáneo en el bachillerato.



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