

3-D PRINTING

Designing and Prototyping



3-D PRINTING: DESIGNING AND PROTOTYPING PACKAGE

Creating prototype components and other parts through 3-D printing is fast becoming a normal part of the engineering process. With this package, you can easily prepare students for the realities of the workplace.

The package includes an Afinia H-Series 3D Printer, which boasts an out-of-the-box printing experience, along with 3-D software for PC and Mac. The printer operation is simple: the ABS filament winds off a spool and through an extruder head at 260°C. Then, the machine creates a 3-D object up to 5" x 5" x 5" from a design file. At just 11 pounds, the printer has a footprint of approximately 9.65" x 10.25" x 13.75" (245 x 260 x 350 mm).

Also includes handling tools, white and blue ABS filament, the 3-D Printer Curriculum Package, and the 3-D Printer Car Package, which is geared for a class of 25.

No assembly is needed for the printer, but it does require the use of a wall outlet and a computer. **System Requirements:** PC – Windows XP/Vista/Win 7; Mac – OSX.



PREMIUM ABS FILAMENT

Keep the 3-D parts printing! Premium ABS material for your Afinia H-Series 3D Printer is available in three colors: blue, red, and yellow. Comes in 1-1/2 pound spools. Many parts can be made from each roll of filament.

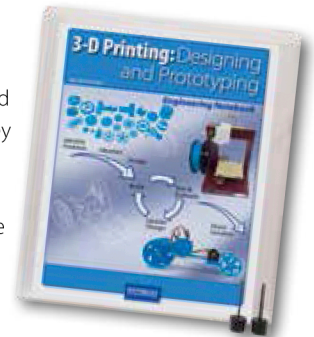
3-D PRINTING: DESIGNING AND PROTOTYPING CURRICULUM

A Pitsco Exclusive

This curriculum is designed for three weeks of class time, and students begin by learning engineering and rapid prototype processes and seeing how the 3-D printer operates. Then, they work in teams to design their own battery-operated car, using the 3-D printer to make parts to construct their vehicle. Finally, they see the results of their work on race day.

Written by an engineer, this classroom activity was developed to address several Next Generation Science Standards, specifically the Grades 6-9 Engineering Design performance expectations. Aside from helping instructors meet standards, the activity helps students experience real-world conditions such as peer review and working within a budget.

Includes a DVD, teacher's guide, 5 Competition Catalogs, and drill assemblies for cleaning axle holes. **Requires Afinia H-Series 3D Printer**, sold separately.



3-D PRINTING: DESIGNING AND PROTOTYPING CLASS PACK

A Pitsco Exclusive

Supply your classroom with car kits to use with your 3-D printer. This package provides all the parts needed to create 50 battery-operated cars; however, some parts can be made with the 3-D printer if desired. Includes wheels, axles, chassis, battery holders, batteries, motors, and other needed components and hardware. Also includes 250 Engineering Notebooks for student use. **Requires Afinia H-Series 3D Printer**, sold separately.



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