a new classroom paradigm

No learning space is more in need of fresh design thinking than the classroom. Given its pivotal role, architects, designers and educators are reconsidering a new classroom paradigm where technology and the physical space are integrated to support pedagogy and create a more active and engaging experience for instructors and students.

Our research shows that this new classroom approach can be successfully implemented in facilities of any age, from refurbished rooms in old buildings to renovated spaces, as well as in new construction. The problem has been that pedagogy, technology and space have not been considered equally in classroom planning.

For example, the allure of technology has overwhelmed pedagogy and space in many computer lab classrooms: rows of computers on fixed worksurfaces force each student to face a computer screen. It’s a modern-day version of the traditional lecture-style classroom and offers little support for collaboration, teamwork and interactive learning.

Or consider a classroom developed primarily around the building orientation, windows and natural light. A welcoming space, perhaps, but viewing a whiteboard, a projection or computer screen in such a brightly lit space is all but impossible. The default classroom design—a rectangular box filled with rows of desks facing the instructor and writing board—is ubiquitous. Administrators, faculty, architects and donors attended schools with classrooms just like this one. It’s what they know. As a result, today’s students and teachers suffer because these outmoded classrooms inadequately support the integration of the three key elements of a successful learning environment.

The classroom needs out-of-the-box thinking. Literally. Viewed through the lenses of pedagogy, technology and space, the new classroom transcends the box and becomes a much more effective learning environment.

Change begins with pedagogy. Teachers and teaching methods are diverse and evolving. Classes today employ lecture mode, group setups and individual work. From one class to the next, sometimes during the same class period, classroom needs change. Thus, the classroom should easily and quickly adapt to different teaching and learning preferences.

Technology needs careful integration. Students today are digital natives, comfortable using technology to display, share and present information. Vertical surfaces to display content, multiple projection surfaces and whiteboards in various configurations are all important classroom considerations.

Many faculty members are digital immigrants. This divide often causes concerns for faculty members who are untrained and uncomfortable when asked to develop instructional design protocols for truly engaging learners.

Space impacts learning. Nearly three-quarters of classes include class discussions and a quarter of all classes include group projects, and those percentages are continuing to grow. Interactive pedagogies require learning spaces where everyone can see the content, and see and interact with others. Every seat can, and should, be the best seat in the room.

More people are teaching than just the faculty. As more schools adopt constructivist teaching pedagogies, the “sage on the stage” is giving way to the “guide on the side.” The classroom needs to support instructors moving among teams to provide real-time feedback and direction and support students in peer-to-peer learning.

Pedagogy, technology and space, carefully considered and integrated, define the new classroom. When the space, furniture and technology can readily adapt to the pedagogies and learning preferences of each term, and the classroom effectively supports how instructors teach and students learn, classroom planners and designers will have made a significant contribution to the educational process.

Movement is key to active learning. When students can move about easily, they are more interactive, collaborative, comfortable and engaged in class.

Node seating reinvents the classroom chair, allowing easy movement between lecture-based and team based modes, and providing a worksurface and storage wherever it goes.
End of life
Think is up to 99% recyclable by weight. The chair can be easily disassembled in about 5 minutes, using ordinary hand tools. Parts weighing more than 50kg are clearly labeled for recycling.

Use
Designed for long life, Think is easy to repair, reconfigure and upgrade. Seat and back cushions, arms, headrest and lumbar adjustments can be easily added, changed or replaced.

Transport
To reduce shipping, chairs are manufactured close to customers in Europe and North America, and beginning 2005 in Asia. Because the Think chair is lightweight, it requires less energy for shipping. Think is available to ship ready-to-assemble, which uses less packaging and allows more chairs per shipment.

Materials
To reduce overall material usage, Think weighs only 32 pounds — a fraction of the weight of comparable chairs. It contains up to 44% recycled materials, and absolutely no PVCs, CFCs, solvents, benzene, chrome, lead or mercury.

Production
Think was designed to be made with minimal waste, energy consumption and environmental impact. Powder-coat painting is VOC-free and free of heavy metals. No gluing processes are used in assembly.

Environmental effects evaluated for Life Cycle Assessment

Global Warming
is the rise of global temperature due to emissions of greenhouse gas. A one-way flight from New York to Hawaii does more damage than the entire life cycle of 7,200 Think chairs.

Acidification
is the damage to trees and rivers, as well as accelerated degradation of limestone and concrete. Watching one TV for a year contributes more pollutants to acid rain than the life cycle of a Think chair.

Eutrophication
is the loss of plants and animals in aquatic ecosystems due to oxygen depletion following blooms of algae, stimulated by high nutrient concentrations. The life cycle of 30 Think chairs does less damage than fertilizing a one-acre lawn just once.

Phototoxic Smog
is a type of air pollution caused by emitting volatile organic components. Your car releases as much phototoxic smog in five hours of driving as Think does in its entire life cycle.

Abiotic Resource Depletion
is the depletion of non-renewable resources such as oil, coal and metals. Depletion is minimized in the Think chair by using materials made from recycled content when possible, and minimizes the number of parts and types of materials needed.

Waste
is the bulk waste and hazardous waste created during the entire life cycle of a product. The average American generates twice as much waste in one week as the life cycle of Think.

Toxic Emissions
are substances which cause harm to the natural environment or human health. The majority of the substances in this category for the Think chair life cycle is sulphur oxide, the result of combustion of fossil fuels.

Think beyond.
When it’s finally time for new chairs, Think goes easily into its next life. The Steelcase Environmental Partnership will help you responsibly take your chair into the next phase of its life cycle — be it resale or refurbish, donation to charity, or recycling. Or you can easily recycle the Think chair yourself. Think separates with simple hand tools into well-labeled components.
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Sara Lushinski, Acct Mgr
619-572-2346
slushinski@bkmsd.com

Donna Sabbagh, Prj Coord.
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dsabbagh@bkmsd.com

Team Leader: Tina Geisler
Sales VP: Anthony Jenkinson

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Move by Steelcase

Features and Benefits
- Stackable side chair with dynamic seat for superior comfort
- Stacks 5-high on the floor; 10-high on a dolly
- Structural steel frame
- Upholstered or plastic back
- Cantilevered arms to accommodate alternative postures
- Gold Cradle to Cradle™ Certification for environmental performance from MBDC

Jenny Lounge by Turnstone

Features and Benefits
- Designed by Briane Kane
- Wide range of aesthetic choices creates a solution for any space
- With or without arms or ottomans, tables or tablet arms, can configure as a chair, lounger, or couch—as many sections as you wish
- Black legs
- Brushed aluminum legs (Jenny Round only)
- SCS Indoor Advantage Gold Certified

U-free by Steelcase

Features and Benefits
- Designed by Briane Kane
- Wide range of aesthetic choices creates a solution for any space
- With or without arms or ottomans, tables or tablet arms, can configure as a chair, lounger, or couch—as many sections as you wish
- Black legs
- Brushed aluminum legs (Jenny Round only)
- SCS Indoor Advantage Gold Certified

Cobi by Steelcase

Features and Benefits
- Weight-activated mechanism responds to user movement to support body
- Passive flexible seated edge moves as your body moves
- Flexible back
- Soft edge on top of back and open arms allowing for alternative posture

Bix by Coalesse

Features and Benefits
- “Lounge-based” work settings that host teams and technology in comfort
- Refined system of seating and tables that includes convenient connections to power, voice and data
- Lounge legs feature an adjustable glide
- Back screens feature hidden zipper detail

Payback by Steelcase

Features and Benefits
- Highly mobile
- Flexible seat
- Swiveling seat and personal worksurface
- Personal worksurface is adjustable, non-handed, and large enough to support digital and analog resources
- Base and arms provide storage for backpack and other items
- Comfort without upholstery for easy maintenance
- Assembles in 30 seconds

Campfire Big Lounge by Turnstone

Features and Benefits
- Comfy as the couch in your living room
- PERFECT FOR LOUNGING ON WITH YOUR LAPTOP FOR A WHILE, OR INVITE THE TEAM OVER AND HAVE AN INFORMAL MEETING
- BRINGS PEOPLE TOGETHER AND SIGNALS TO YOUR VISITORS THAT THEY ARE WELCOME TO STAY A WHILE.

Groupwork by Turnstone

Features and Benefits
- Highly mobile
- Flexible seat
- Swiveling seat and personal worksurface
- Personal worksurface is adjustable, non-handed, and large enough to support digital and analog resources
- Base and arms provide storage for backpack and other items
- Comfort without upholstery for easy maintenance
- Assembles in 30 seconds
**Summarized Content**

**Design Services**
Furniture layout and specification of product is available through our in-house Design department. Serving as support to our customers and the design community, we provide professional CAD (Computer Aided Design) and CAP (Automated Furniture Specifications) capabilities to assist you in your planning process.

**Installation & Reconfigurations**
No matter what the product, no matter the logistical complexities, our trained installers are expert in the installation and reconfiguration of your office furniture. We arrive at the job fully prepared, with all the tools, equipment and personnel required to complete the project successfully. We pride ourselves on our timeliness and attention to detail.

**Asset Storage & Tracking**
With fully racked warehouses and automated inventory control, bkm OfficeWorks’ Asset Storage & Tracking department can supply professional storage and asset management to our customers. Our warehouses are used exclusively for the storage of furniture and are clean, sprinkled, fully insured and staffed by furniture handling specialists.

**Project Management**
Projects don’t just happen—they are planned, managed and administered by our skilled Project Managers. We start with a thorough analysis of the project, then develop a detailed work plan that includes a complete schedule of all activities. Finally, we research and resolve all technical issues while implementing the work plan to your satisfaction.

**Relocations & Move Management**
bkm OfficeWorks takes moving and relocations seriously. Trained staff, a fleet of tractors/trailers, specialized moving equipment and a thorough knowledge of the moving business allow us to service our customers efficiently and cost effectively. Combined with our other project services, we offer a turnkey process few companies can match.
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**Contact Us**

**bkm Furniture Team**

Sara Lushinski  
Account Mgr.  
619-572-2346  
slushinski@bkmsd.com

Donna Sabbagh  
Prj Coordinator  
858-569-4765  
dsabbagh@bkmsd.com

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**Ordering Furniture**

**When to use Storehouse?**

Campus Customers wishing to purchase seating & freestanding storage are to purchase these items through Storehouse: Judy x2554.

**When to use bkm OfficeWorks?**

All other (non-wood) Steelcase brand products with total purchase cost under $10,000 are to order directly from bkm OfficeWorks using this agreement on a Department Approved Purchase Order (DAPO).

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**Installation Checklist**

**What To Do Before Furniture is Installed**

1. Departments must ensure that the area where the furniture will be installed is free of existing furniture, boxes and equipment.

2. All computers and phones must be moved by UC personnel prior to new furniture being installed.

3. Moving of existing furniture by BKM may result in additional charges. If you want the dealer to do additional work, other than the install, they may do so at an additional hourly charge.

4. Arrangements must be made for electrical and/or data & telecom personnel to be on site at the time of installation, whenever necessary.

5. If wall mounted furniture is to be used (storage bins, shelves, etc...) please verify with Facilities that the walls have been properly reinforced with wall backing plates, where necessary, prior to placing your order, if the walls need to be reinforced, be sure this is completed prior to scheduling the furniture installation date.

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**Product Warranty**

Steelcase Inc.  
View Details

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**Purchasing Questions**

General questions regarding Furniture Purchase Orders should be directed to:  
Renee Aldal 951-827-3023

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**Sales VP:** Anthony Jenkinson
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619-572-2346
slushinski@bkmsd.com

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dlushinski@bkmsd.com

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slushinski@bkmsd.com

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slushinski@bkmsd.com

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