

**SA** Society for Technology in Anesthesia

Power Talks  
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**How technology empowers teaching**

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As teachers what we need to know?

- ❖ How to improve leadership in technology  
*"the empowered teacher"* 
- ❖ Develop equitable learning opportunities for all the students  
*"consider diversity"* 
- ❖ Personalizing learning experience  
*"education leads to success"* 

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How to improve teaching with the help of new technologies?

- ❖ Plan the effective technology integration  
*"select the "best" tech tools but do not loose sight of your goals!"* 
- ❖ Be outcomes oriented  
*"measure success"* 
- ❖ Teaching empowerment  
*"professional development and team work"* 

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3

## Create networks

- ❖ Keep your pace  
*"self directed learning as natural flow"* 
- ❖ Create new connections with other professionals, departments, institutions  
*"mutual benefit"* 
- ❖ Promote greater cultural awareness  
*"cross-cultural clinical encounters and global diversity"* 

Shepherd, S.M. Cultural awareness workshops: limitations and practical consequences. BMC Med Educ 19, 14 (2019)

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## Leadership in teaching

Educational Technology Experts contribute to a vision of a *high-quality medical education system.*



*Technology transforms medical education.*





Geisner M, Sauerberg L, von Harff P, et al., "Integrating the educational technology expert in medical education: A role-based competency framework", MedEdPublish 2017 6, [2], 17  
Moran, J., Britscoe, G. & Peggow, S. Current Technology in Advancing Medical Education: Perspectives for Learning and Providing Care Acad Psychiatry 2018 42: 796

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## The roles of a good teacher in the technology era

Establish and reinforce values and purpose of teaching with technology



Develop vision and strategies necessary to achieve the vision

Build the community

Initiate and manage the changes necessary to allow growth



Allio, R. (2005). "Leadership development: teaching versus learning", Management Decision, Vol. 43 No. 7/8, pp. 1071-1077.

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Teachers the instigators, creators and implementors of educational change

**Power**

*"an important end is to make a difference in the lives of students"*  
M. Fullan (2002)

**Quality process**

evaluation of *technical skills, human skills, and conceptual skills*

**Innovation and change**

*"changing the culture "*

THE CORE FOUR ELEMENTS OF PERSONALIZED LEARNING



**Flexible Content and Tools**

Instructional materials allow for differentiated paths, pace, and performance goals



**Targeted Instruction**

Instruction aligns to specific student needs and learning goals



**Student Reflection and Ownership**

Ongoing student reflection promotes ownership of learning



**Data Driven Decisions**

Frequent data collection informs instructional decisions and grouping

<https://www.edelements.com/technology-in-classroom>

Alma Harris & Michelle Jones (2019) *Teacher leadership and educational change*, School Leadership & Management, 39:2, 123-126

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As the world (and technology) changes, what should persist?

- ❖ Clear ethical values
- ❖ Being clear about the purpose of your organization
- ❖ Putting patients first
- ❖ Constantly trying to improve
- ❖ Basing what we do on evidence
- ❖ Leadership
- ❖ Education and learning



Smith Richard. Thoughts for new medical students at a new medical school *BMJ* 2003; 327:1430

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With our thoughts we make the world



**"Change comes from within like a ripple effect as an idea creates a circle of influence. "**

Davinder Sandhu (2018) Postgraduate medical education – Challenges and innovative solutions. *Medical Teacher*, 40:6, 607-609

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