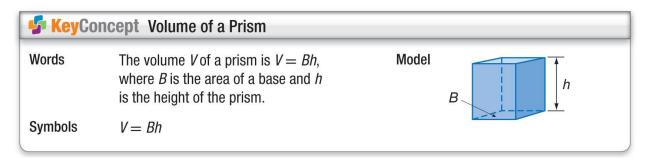


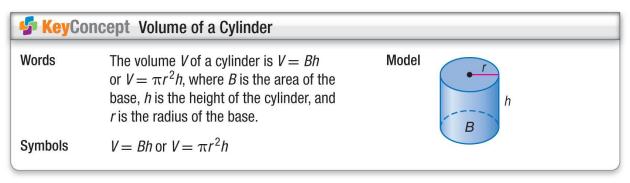
Sevence of a Cylinder				
Words	The lateral area <i>L</i> of a right cylinder is $L = 2\pi rh$ , where <i>r</i> is the radius of a base and <i>h</i> is the height.	Model r		
	The surface area S of a right cylinder is $S = 2\pi rh + 2\pi r^2$ , where r is the radius of a base and h is the height.	h		
Symbols	$L = 2\pi rh$ S = L + 2B  or $2\pi rh + 2\pi r^2$			

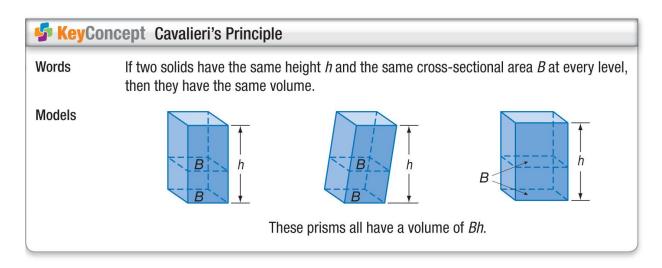
Sevent Se					
Words	The lateral area <i>L</i> of a regular pyramid is $L = \frac{1}{2}P\ell$ , where $\ell$ is the slant height and <i>P</i> is the perimeter of the base.	Model P			
Symbols	$L = \frac{1}{2} P \ell$				

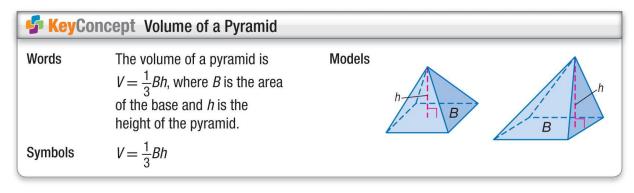
<b> Key</b> Co	ncept Surface Area of a Regular Pyra	mid
Words	The surface area <i>S</i> of a regular pyramid is $S = \frac{1}{2}P\ell + B$ , where <i>P</i> is the perimeter of the base, $\ell$ is the slant height, and <i>B</i> is the area of the base.	Model
Symbols	$S = \frac{1}{2}P\ell + B$	

<b>5 Key</b> Co	oncept Lateral and Surface Area of a Cone	
Words	The lateral area <i>L</i> of a right circular cone is $L = \pi r \ell$ , where <i>r</i> is the radius of the base and $\ell$ is the slant height.	Model
The surface area <i>S</i> of a right circular cone is $S = \pi r \ell + \pi r^2$ , where <i>r</i> is the radius of the base and $\ell$ is the slant height.		r r
Symbols	$L = \pi r \ell \qquad S = \pi r \ell + \pi r^2$	









<b>5 Key</b> Co	oncept Volume of a Cone			
Words	The volume of a circular cone is $V = \frac{1}{3}Bh$ , or $V = \frac{1}{3}\pi r^2h$ , where <i>B</i> is the area of the base, <i>h</i> is the height of the cone, and <i>r</i> is the radius of the base.	Models	h	B • r
Symbols	$V = \frac{1}{3}Bh$ or $V = \frac{1}{3}\pi r^2h$			

KeyConcept Surface Area and Volume				
Prism	Regular Pyramid	Cylinder	Cone	Sphere
P h h	ile Ile	h	h h l l	
T = Ph + 2B	$T = \frac{1}{2}P\ell + B$	$T=2\pi rh+2\pi r^2$	$T = \pi r\ell + \pi r^2$	$T = 4\pi r^2$
V = Bh	$V = \frac{1}{3}Bh$	$V = \pi r^2 h$	$V = \frac{1}{3}\pi r^2 h$	$V = \frac{4}{3}\pi r^3$
T = total surface area		V = volume	h = height of a solid	
P = perimeter of the base		B = area of base	$\ell = $ slant height, $r = $ radius	