

I use this the first 5-7 minutes of every math lesson. The song then a time test everyday!

When introducing a song, I give every student a lyric sheet. I model one line at a time and they repeat each line until I finish the song. I do this for the first two days. These students take the lyrics home and read them every night as part of their homework. By the end of the week most students know the song by heart!

My students LOVE these songs and have mastered their times tables through nines!

Background by

http://www.teacherspayteachers.com/Store/Bufor d-Girl

Clip art by

http://melonheadzillustrating.blogspot.com/p/ter ms-of-use.html

<u>Mu</u>	ltipli	<u>cation</u>	<u>ว ไพต</u>	<u>DS</u>	<u>S</u>				
2	2	2	2	2	2	2	2	2	2
_ <u>x 5</u>	_ <u>x 6</u>	_x 7	<u>x 3</u>	<u>x 2</u>	_ <u>x 4</u>	_x 10	<u>x 8</u>	<u>x 9</u>	_ <u>x 6</u>
2	2	2	2	2	2	2	2	2	2
<u>x 3</u>	2	<u>x 8</u>	x 9	_x 4	<u>x 2</u>	_x 10	<u>x 5</u>	_ <u>x 3</u>	<u>2</u>
2	2	2	2	2	2	2	2	2	2
<u>x 10</u>	x 2	x 9	x 5	<u>x 8</u>	2	2	x 9	2	_x 4
2	2	2	2	2	2	2	2	2	2
2	<u>x 5</u>	2	x 2	<u>x 3</u>	<u>x 8</u>	x 7	x 2	x 5	X_4
2	2	2	2	2	2	2	2	2	2
_x 3	<u>x 8</u>	x 10	x 9	X _ 6	x 9	_x 3	x 2	_x 5	<u>x 8</u>

Mu	ltipli	cation	<u>ว ไพต</u>	<u>DS</u>	Name:				
9	3	7	5	2	10	6	4	8	3
x 2	x 2	x 2	x 2	x 2	<u>x 2</u>	<u>x 2</u>	x 2	x 2	<u>x 2</u>
10	4	9	6	5	7	2	8	6	7
x 2	_x 2	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	x 2	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>
8	3	10	9	2	4	5	10	9	4
x 2	x 2	_x_2	<u>x 2</u>	x 2	<u>x 2</u>	_x 2	<u>x 2</u>	<u>x 2</u>	_x 2
7	3	6	8	5	2	7	2	5	4
x 2	_x 2	<u>x 2</u>	<u>x 2</u>	_x 2	x 2	_x 2	_x 2	<u>x 2</u>	_x 2
9	6	8	10	3	9	6	8	4	7
x 2	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>	<u>x 2</u>

Mul	tiplic	ation) Thr	'ee's		Name:			
3	3	3	3	3	3	3	3	3	3
<u>x 9</u>	<u>x 5</u>	_x 7	3	x 10	<u>x 8</u>	<u>x 6</u>	<u>x 3</u>	x 2	<u>x 5</u>
3	3	3	3	3	3	3	3	3	3
x 10	_x 9	<u>x 6</u>	_ <u>x 4</u>	<u>x 3</u>	<u>x 2</u>	<u>x 8</u>	<u>x 7</u>	<u>x 2</u>	<u>x 9</u>
3	3	3	3	3	3	3	3	3	3
<u>x 3</u>	<u>x 8</u>	<u>x 5</u>	3	_x 10	<u>x 6</u>	_x 7	<u>x 8</u>	<u>x 3</u>	_x 7
3	3	3	3	3	3	3	3	3	3
<u>x 9</u>	_x 2	<u>x 5</u>	<u>x 10</u>	_ <u>x 4</u>	<u>x 6</u>	<u>x 7</u>	<u>x 3</u>	<u>x 5</u>	_ <u>x 4</u>
3	3	3	3	3	3	3	3	3	3
<u>x 6</u>	_x 2	_x 10	x 9	<u>× 8</u>	<u>x 8</u>	x 9	<u>x 7</u>	<u>x 4</u>	<u>x 10</u>

Mu	<u>ltiplic</u>	ation	<u>) Thr</u>	ee' S		Name:			
7	6	10	8	5	4	3	9	2	8
<u>x 3</u>	<u>x 3</u>	_x_3	_x 3	_x 3	_x 3	<u>x 3</u>	<u>x 3</u>	_x 3	<u>x 3</u>
10	6	3	4	7	5	2	9	9	5
_ <u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	_ <u>x 3</u>	<u>x 3</u>	_ <u>x 3</u>	<u>x 3</u>	<u>x 3</u>	_x 3
7	2	4	8	3	6	10	9	8	4
<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	_ <u>x 3</u>
5	6	2	10	7	3	8	7	2	10
_x 3	<u>x 3</u>	_x 3	_ <u>x 3</u>	_ <u>x 3</u>	<u>x 3</u>	<u>x 3</u>	_ <u>x 3</u>	_ <u>x 3</u>	_ <u>x 3</u>
6	5	9	4	3	5	6	4	9	7
x 3	<u>x 3</u>	<u>x 3</u>	_ <u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	<u>x 3</u>	_x 3

Mul	tiplic	ation	Fou	<u>P'S</u>		Name:				
4	4	4	4	4	4	4	4	4	4	
_x 7	4	x 2	_x 9	<u>x 3</u>	X_10	_ <u>x 6</u>	<u>x 8</u>	<u>x 5</u>	<u>4</u>	
4	4	4	4	4	4	4	4	4	4	
x 9	<u>× 8</u>	_x 10	_ <u>x 5</u>	<u>x 3</u>	_x 2	<u>x 6</u>	X	<u>x 8</u>	<u>x 5</u>	
4	4	4	4	4	4	4	4	4	4	
<u>x 6</u>	<u>x 3</u>	_x 4	_x 7	_x 10	_x 2	_x 9	_ <u>x 6</u>	4	<u>x 9</u>	
4	4	4	4	4	4	4	4	4	4	
_x 5	<u>x 3</u>	_ <u>x 8</u>	_x 2	_x 10	_x 7	_x 7	_ <u>x 6</u>	x 2	4	
4	4	4	4	4	4	4	4	4	4	
x 9	x 5	<u>x 8</u>	<u>x 3</u>	x 4	4	_x 3	_x 5	x 9	X _ 6	

Mu	ltiplic	cation	o Fou	P'S		Name:			
10	6	7	3	4	5	2	9	8	10
<u>x 4</u>	_x 4	_x 4	_x 4		_ <u>x 4</u>	_x 4	_x 4	_x 4	<u>x 4</u>
7	5	6	9	8	2	4	3	7	9
_x 4	_x 4	_x_4	_ <u>x 4</u>	_x_4	_ <u>x 4</u>	_x 4	_x 4	_x_4	<u>x 4</u>
4	8	2	5	10	6	3	10	3	9
_x 4	_ <u>x 4</u>	_ <u>x 4</u>	_ <u>x 4</u>	_ <u>x_4</u>	<u>x4</u>	_ <u>x 4</u>	_ <u>x_4</u>	_ <u>x 4</u>	<u>x 4</u>
7	8	6	4	2	5	2	3	6	7
<u>x 4</u>	_x 4	_x_4	_ <u>x 4</u>	_ <u>x 4</u>	<u>x 4</u>	_ <u>x 4</u>	_x 4	_x_4	<u>x 4</u>
5	10	8	4	9	3	8	7	10	6
_x 4	<u>x 4</u>	<u>x 4</u>							

Mu	ltiplic	ation	o Five	<u>e's</u>		Name:			
5	5	5	5	5	5	5	5	5	5
x 9	_x 10	x 8	<u>x 3</u>	<u>x 6</u>	x 5	<u>x</u>	x 7	x 2	x 2
5	5	5	5	5	5	5	5	5	5
_x 7	x 9	<u>x 8</u>	_x 4	_x 10	<u>x 6</u>	_ x 5	<u>x 3</u>	_x 9	<u>x 4</u>
5	5	5	5	5	5	5	5	5	5
x 7	<u>x 5</u>	<u>x 8</u>	_x 2	<u>x 3</u>	<u>x 6</u>	<u>x 10</u>	_x 3	<u>x 10</u>	<u>x 9</u>
5	5	5	5	5	5	5	5	5	5
_x 7	<u>x 8</u>	_x 6	<u>x 5</u>	x 2	_x 4	_x 9	_ <u>x 8</u>	<u>x 10</u>	<u>x 4</u>
5	5	5	5	5	5	5	5	5	5
<u>x 6</u>	<u>x 2</u>	_x 7	<u>x 3</u>	<u>x 5</u>	<u>x 4</u>	<u>x 6</u>	<u>x 10</u>	x 9	<u>x 5</u>

Mu	ltiplic	cation	o Five	<u>?'S</u>		Name:			
6	4	5	9	10	8	2	3	7	3
x 5	<u>× 5</u>	x 5	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	x 5
8	9	6	7	4	2	10	5	10	9
x 5	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>
4	3	5	6	7	8	2	2	7	10
x 5	_x 5	_x 5	x 5	_ <u>x 5</u>	x 5	<u>x 5</u>	_x 5	<u>x 5</u>	<u>x</u>
3	6	4	8	9	5	6	8	3	4
x 5	x 5	<u>x 5</u>	x 5	<u>x 5</u>	<u>x 5</u>	<u>x 5</u>	x 5	<u>x 5</u>	<u>x 5</u>
9	7	10	2	5	6	7	5	9	4
x 5	<u>x 5</u>	_x_5	_x 5	_x 5	_x 5	_ <u>x 5</u>	<u>x 5</u>	_x 5	_x 5

Mu	ltiplic	eation.) Six'	<u>S</u>		Name:			
6	6	6	6	6	6	6	6	6	6
<u>x 3</u>	x 9	x 2	<u>x 8</u>	_ <u>x 5</u>	<u>x 4</u>	<u>x 10</u>	<u>x 7</u>	<u>x 6</u>	_x 4
6	6	6	6	6	6	6	6	6	6
x 9	<u>x 8</u>	<u>x 6</u>	_x 5	_x 10	<u>x 2</u>	<u>x 3</u>	<u>x 7</u>	_x 10	_x 5
6	6	6	6	6	6	6	6	6	6
<u>x 2</u>	_x 3	<u>x 8</u>	_x_4	<u>x 9</u>	<u>x 7</u>	<u>x 6</u>	<u>x 5</u>	_x 7	<u>x 9</u>
6	6	6	6	6	6	6	6	6	6
<u>x 10</u>	_x 2	<u>x 8</u>	<u>x 6</u>	_x_4	<u>x 3</u>	<u>x 3</u>	_x 10	<u>x 6</u>	_x 2
6	6	6	6	6	6	6	6	6	6
<u>x 7</u>	x 5	<u>4</u>	<u>x 8</u>	<u>x 9</u>	<u>x 6</u>	<u>x 3</u>	x 10	<u>x 4</u>	<u>x 9</u>

Mu	ltipli	cation	o Six'	<u>S</u>	Name:				
3	9	7	2	5	8	10	6	4	8
x 6	<u>x 6</u>	<u>x 6</u>	x 6	x 6	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	X _ 6	<u>x 6</u>
9	7	6	3	2	4	10	5	4	9
<u>x 6</u>	_ <u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>				
2	10	3	5	6	7	8	8	6	5
x 6	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>
10	7	9	2	4	3	7	4	10	6
<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	_ <u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	_x_6	<u>x 6</u>
2	5	8	9	3	2	5	3	6	10
x 6	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>x 6</u>

Mul	ltiplic	ation.) Sev	en's	- e	Name:			
7	7	7	7	7	7	7	7	7	7
x 2	8	<u>x 3</u>	<u>x 10</u>	X	_x 7	<u>x 6</u>	<u>x 9</u>	X _ 4	<u>x 9</u>
7	7	7	7	7	7	7	7	7	7
x 5	<u>x 8</u>	_ <u>x 6</u>	7	_x 2	<u>x 3</u>	4	_ <u>x 10</u>	_x 4	_ <u>x 5</u>
7	7	7	7	7	7	7	7	7	7
<u>x 6</u>	<u>x 7</u>	_x 2	_x 10	_x 9	<u>x 8</u>	_ <u>x 3</u>	<u>x 8</u>	_x 5	<u>x 6</u>
7	7	7	7	7	7	7	7	7	7
x 10	<u>x 2</u>	_x_4	7	_ <u>x 3</u>	<u>x 9</u>	_ <u>x 4</u>	<u>x 6</u>	_x 2	_ x 9
7	7	7	7	7	7	7	7	7	7
<u>x 10</u>	<u>x 3</u>	<u>× 5</u>	<u>x 7</u>	<u>x 8</u>	<u>x 9</u>	<u>x 7</u>	<u>x 6</u>	<u>x 4</u>	<u>x 8</u>

Mu	ltiplic	ration	Sev	<u>ed's</u>	-	Name:			
7	3	5	10	4	2	6	8	9	6
x 7	<u>x 7</u>	x 7	<u>x 7</u>	X 7	_x 7	<u>x 7</u>	_x 7	<u>x</u> 7	_x 7
7	3	10	2	4	9	5	8	7	8
x 7	_x 7	_ <u>x 7</u>	<u>x 7</u>	_x 7	_x 7	_x 7	_x 7	_x 7	_x 7
3	9	2	10	5	4	6	8	6	3
x 7	_x 7	<u>x</u> 7	_ <u>x 7</u>	_x 7	_x 7	_x 7	_x 7	_x 7	_x 7
5	4	7	10	9	2	2	9	8	3
x 7	_x 7	<u>x 7</u>	<u>x 7</u>	_x 7	_x 7	_x 7	_x 7	_x 7	_x 7
6	4	10	5	7	7	10	4	9	8
x 7	X	x 7	_x 7	<u>× 7</u>	<u>× 7</u>	_x 7	_x 7	<u>x 7</u>	_x 7

Mu	ltiplic	ation) Eigl		Name:				
8	8	8	8	8	8	8	8	8	8
<u>x 6</u>	_x 10	<u>x 4</u>	x 5	<u>x 8</u>	<u>x 2</u>	<u>x 9</u>	<u>x 3</u>	x 7	<u>x 6</u>
8	8	8	8	8	8	8	8	8	8
_x 2	<u>x 3</u>	_x 5	_x 4	_x 10	<u>x 9</u>	_x 7	<u>x 8</u>	_x 4	_x 9
8	8	8	8	8	8	8	8	8	8
<u>x 6</u>	<u>x 2</u>	<u>x 8</u>	<u>x 3</u>	_x 7	x 5	_x 10	<u>x 3</u>	_x 7	<u>x 2</u>
8	8	8	8	8	8	8	8	8	8
<u>x 10</u>	_x 4	<u>x 8</u>	x 5	<u>x 6</u>	x 9	<u>x 2</u>	_x 7	x 5	<u>x 3</u>
8	8	8	8	8	8	8	8	8	8
x 10	_ <u>x 8</u>	_x 4	<u>x 6</u>	_x 9	_ <u>x 6</u>	_x 9	_x 7	_x 2	<u>x 8</u>

Mu	ltiplic	ation.) Eigh	<u>rt's</u>	e	Name:			
3	10	9	4	2	7	6	8	5	8
x 8	<u>x 8</u>	<u>x 8</u>	<u>× 8</u>	x 8	<u>x 8</u>				
4	9	5	3	10	7	6	2	6	2
x 8	<u>x 8</u>	_x 8	_ <u>x 8</u>	_ <u>x_8</u>	_ <u>x 8</u>	_ <u>x 8</u>	_ <u>x 8</u>	<u>x 8</u>	_ <u>x 8</u>
7	8	5	10	3	4	9	5	4	6
x 8	_x 8	<u>x 8</u>	_ <u>x 8</u>	_ <u>x 8</u>	_ <u>x 8</u>	<u>x 8</u>	_ <u>x 8</u>	_ <u>x 8</u>	<u>x 8</u>
8	10	9	3	2	7	9	2	6	5
x 8	<u>x 8</u>	<u>x 8</u>	_ <u>x 8</u>	_ <u>x 8</u>	<u>x 8</u>	<u>x 8</u>	_ <u>x 8</u>	<u>x 8</u>	_ <u>x 8</u>
4	8	10	7	3	7	10	5	3	2
x 8	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>	<u>x 8</u>

Multiplication Nine's Name:										
9	9	9	9	9	9	9	9	9	9	
x 6	<u>x 10</u>	_x 7	<u>x 4</u>	<u>x 3</u>	<u>x 9</u>	<u>x 2</u>	<u>x 5</u>	<u>x 8</u>	<u>x 6</u>	
9	9	9	9	9	9	9	9	9	9	
x 9	<u>x 3</u>	<u>x 5</u>	<u>x 10</u>	<u>x 8</u>	<u>x 2</u>	_x 7	_ <u>x 4</u>	_x 3	<u>x 6</u>	
9	9	9	9	9	9	9	9	9	9	
<u>x 9</u>	<u>x 8</u>	<u>x 7</u>	<u>x 10</u>	_ <u>x 4</u>	<u>x 5</u>	<u>x 2</u>	<u>x 2</u>	_x 7	<u>x 5</u>	
9	9	9	9	9	9	9	9	9	9	
x 10	_ <u>x 8</u>	_ <u>x 4</u>	<u>x 6</u>	<u>x 9</u>	<u>x 3</u>	<u>x 3</u>	_x 4	_x 2	<u>x 8</u>	
9	9	9	9	9	9	9	9	9	9	
x 7	<u>x 6</u>	<u>x 5</u>	x 9	<u>x 10</u>	<u>x 2</u>	x 10	x 7	<u>x 5</u>	<u>x 8</u>	

Mu	ltipli	cation) Nir.		Name:					
5	3	2	9	7	4	6	10	8	8	
x 9	<u>x 9</u>	x 9	x 9	<u>x 9</u>	_x 9	x 9	_x 9	x 9	<u>x</u> 9	
9	5	3	7	4	10	2	6	9	2	
x 9	_x 9	_x 9	_x 9	_x 9	_x 9	_x 9	_x 9	<u>x 9</u>	_x 9	
8	5	4	7	3	6	10	3	8	2	
x 9	_x 9	_x 9	_x 9	_x 9	<u>x 9</u>	_x 9	<u>x 9</u>	<u>x 9</u>	_x 9	
10	9	7	5	4	6	10	9	3	2	
x 9	_x 9	_x 9	_x 9	_x 9	<u>x 9</u>	_x_9	<u>x 9</u>	<u>x 9</u>	_x 9	
5	8	7	6	4	6	3	8	5	7	
x 9	<u>x 9</u>	x 9	<u>x 9</u>	x 9	<u>x 9</u>					

Multiplication 6,7,8's Name:										
8	8	7	7	8	8	6	6	7	7	
x 9	x 5	<u>x 3</u>	<u>x 10</u>	<u>x 6</u>	_x 4	<u>x 6</u>	<u>x 2</u>	x 5	<u>x 6</u>	
7	6	7	8	7	6	6	8	6	6	
_x 4	_x 7	<u>x 8</u>	_x 10	<u>x 9</u>	_x_10	x 9	<u>x 8</u>	<u>4</u>	_ <u>x 8</u>	
7	6	6	7	8	8	8	8	6	6	
<u>x 7</u>	<u>x 5</u>	<u>x 3</u>	<u>x 2</u>	<u>x 3</u>	_x 7	<u>x 2</u>	<u>x 3</u>	_x_10	_x 9	
6	8	8	6	8	6	7	8	8	8	
<u>x 6</u>	<u>x 8</u>	<u>x 2</u>	<u>x 2</u>	_ <u>x 4</u>	<u>x 8</u>	X	<u>x 5</u>	<u>x 6</u>	_x 9	
6	6	6	7	7	8	6	8	7	7	
x 4	<u>x 3</u>	_x 5	_ <u>x 6</u>	<u>x 2</u>	<u>x 7</u>	<u>x 7</u>	<u>x 10</u>	<u>x 8</u>	<u>x 10</u>	

Mu	ltipli	cation	6,7,		Name:				
3	5	5	4	4	7	6	6	9	2
x 8	x 6	<u>x 8</u>	_ <u>x 8</u>	_x 7	<u>x 8</u>	<u>x 8</u>	_x 7	_x 7	_x 7
7	5	8	10	8	2	10	10	2	3
x 7	_x 7	_x 6	_ <u>x_6</u>	_ <u>x 8</u>	_ <u>x 6</u>	_ <u>x 8</u>	_x_7	_ <u>x 8</u>	_x 7
6	7	3	4	9	9	8	7	5	3
<u>x 6</u>	<u>x 6</u>	<u>x 6</u>	<u>× 6</u>	<u>x 6</u>	<u>x 8</u>	_x 7	<u>x 8</u>	<u>x 7</u>	<u>x 8</u>
3	10	8	9	4	6	9	2	3	2
x 6	<u>x 8</u>	_x_6	_ <u>x 6</u>	_ <u>x 6</u>	<u>x 8</u>	_x 7	_ <u>x 6</u>	_x 7	<u>x 8</u>
7	9	10	7	6	5	4	6	2	5
x 6	<u>x 8</u>	<u>x 6</u>	<u>x 7</u>	<u>x 6</u>	<u>x 8</u>	_x 7	x 7	x 7	<u>x 6</u>

Mr	ltiplic	cation	Name:						
9	9	9	8	7	9	7	7	8	7
x 9	<u>x 7</u>	<u>x 3</u>	x 2	X	<u>x 4</u>	<u>x 9</u>	<u>x 4</u>	<u>x 10</u>	<u>x 3</u>
8	7	9	7	9	9	7	8	8	8
x 3	<u>x 8</u>	_x 2	_ <u>x 6</u>	<u>x 5</u>	<u>x 8</u>	<u>x 10</u>	<u>x 9</u>	_ x 5	<u>x 8</u>
8	7	7	8	9	8	9	9	8	7
<u>x 6</u>	7	<u>x 2</u>	_x 7	_x 10	<u>x 4</u>	<u>x 6</u>	<u>x 3</u>	<u>x 2</u>	_x 9
8	7	9	7	9	8	9	8	7	9
x 5	<u>x 3</u>	_x 2	_x_7	<u>x 6</u>	<u>x 8</u>	<u>x 7</u>	_x 10	<u>x 5</u>	_ <u>x 4</u>
9	7	8	8	7	7	9	9	8	8
x 10	<u>x 10</u>	x 3	_x 7	<u>x 6</u>	<u>x 8</u>	<u>x 8</u>	<u>x 5</u>	<u>x 9</u>	<u>x 6</u>

Mu	ltipli	cation	Name:						
8	2	4	3	9	6	3	9	7	7
x 7	_x 7	_x 7	<u>x 8</u>	_x 7	<u>x 9</u>	<u>x 9</u>	x 9	_x 7	<u>x 9</u>
7	10	4	5	8	4	5	6	8	2
<u>x 8</u>	_x 9	_x 9	_x 9	_x 9	_ <u>x 8</u>	_x 7	_x 7	<u>x 8</u>	<u>x 8</u>
6	10	10	5	2	3	9	5	10	5
<u>x 8</u>	<u>x 7</u>	_ <u>x 8</u>	<u>x 8</u>	_x 9	<u>x 7</u>	<u>x 8</u>	<u>x 9</u>	_x 9	<u>x 8</u>
5	2	6	8	9	4	10	6	3	9
x 7	_x 9	<u>x 8</u>	<u>x 8</u>	_x 7	_ <u>x 8</u>	_x_7	_x 9	_x 7	<u>x 9</u>
8	10	8	2	7	7	2	4	6	9
x 7	<u>x 8</u>	<u>x 9</u>	<u>x 8</u>	<u>x 9</u>	<u>x 7</u>	x 7	<u>x 7</u>	<u>x 7</u>	<u>x 8</u>

Mult	iplica	ntion	<u>6,7,8's</u>			Name:			
6	6	4	5	6	8	8	4	8	4
x 6	x 4	x 6	<u>x 7</u>	(8	x 7	x 6	x 6	x 6	x 8
4	7	6	6	7	8	4	3	5	8
x 7	x 8	x 8	<u>x 4</u>	(6	<u>x 7</u>	<u>x 8</u>	x 7	x 8	x 7
8	6	7	9	7	5	3	8	8	8
x 8	x 7	x 3	<u>x 6</u>	(7	x 6	<u>x 6</u>	x 4	x 7	x 6
8	9	5	5	7	6	4	5	7	9
x 8	x 7	x 8	<u>x 6</u>	(7	x 6	x 7	x 8	x 2	x 7
7	7	7	5	8	7	8	3	6	6
x 7	x 6	x 5	<u>x 6</u>	(5	<u>x 7</u>	<u>x 6</u>	x 8	x 5	x 8
2	7	5	6	6	7	6	9	2	8
x 8	x 7	x 7	<u>x 9</u>	(6	x 2	x 3	x 6	x 7	x 6
4	8	2	6	7	7	7	4	8	4
x 7	x 8	x 8	<u>x 2</u>	(9	x 3	x 4	x 6	x 4	x 6
7	2	7	8	9	7	9	6	5	6
x 2	x 7	x 7	<u>x 4</u>	(8	x 8	x 8	x 9	x 7	x 6
8	8	6	8	9	6	9	7	7	7
x 9	x 5	x 8	<u>x 7</u>	(6	x 5	<u>x 7</u>	x 7	x 6	x 6
7	8	4	9	6	6	6	3	8	7
x 8	x 8	x 6	<u>x 7</u>	(7	x 8	<u>× 8</u>	<u>x 6</u>	x 7	x 2

$\underline{\mathbb{N}}$	lu	ltiplic	cation) 7,8,9's			Name:				
x	9	2	4	5	9	8	6	8	5	7	
	8	x 8	x 9	<u>x 7</u> <u>x</u>	2	x 9	x 8	x 8	x 8	x 5	
x	9	8	8	8	8	8	8	3	7	3	
	7	x 5	x 9	<u>x 3</u> x	5	x 5	x 8	x 9	x 4	x 9	
x	9	5	4	9	7	7	8	9	8	7	
	5	x 8	x 7	<u>x 6</u> x	3	x 8	x 7	x 9	x 9	x 7	
x	2 8	7 x 5	8 x 5	9 <u>x 7</u> <u>x</u>	7	9 x 7	9 x 7	9 x 9	7 x 7	8 x 9	
x	7	2	8	8	5	8	9	3	8	3	
	7	x 9	x 9	<u>x 7</u> <u>x</u>	7	x 9	<u>x 7</u>	x 8	x 2	x 7	
x	5 8	6 x 7	9 x 8	9 <u>x 8</u> x	7	8 x 8	7 <u>x 8</u>	8 x 8	8 x 7	8 x 9	
x	8	8	7	7	5	7	7	7	7	8	
	8	x 3	<u>x 6</u>	<u>x 4</u> x	8	<u>x 7</u>	<u>x 9</u>	<u>x 6</u>	<u>x 8</u>	x 8	
x	7	8	9	9	4	7	9	4	3	8	
	7	<u>x 7</u>	<u>x 9</u>	<u>x 5</u> <u>x</u>	8	<u>x 2</u>	<u>x 5</u>	<u>x 9</u>	<u>x 7</u>	x 9	
x	7	5	8	5	9	8	7	3	6	8	
	7	x 9	x 7	<u>x 9 x</u>	8	x 9	<u>x 8</u>	x 8	x 7	x 9	
x	4	8	9	9	8	9	7	2	9	7	
	8	x 4	x 8	<u>x 9</u> x	7	x 7	x 9	x 8	x 5	x 7	

Modeling Multiplication 2's

Repeated Addition: 2 x 3	Array:2 rows of 3
$\underline{2 + 2 + 2 = 6}$ Multiplication Sentence: $\underline{2 \times 3} = \underline{6}$	nple 000 000
Repeated Addition: 2 x 8	Array: rows of
Multiplication Sentence:	
Repeated Addition: 2 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 7	Array:rows of
Multiplication Sentence:	
Repeated Addition: 2 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 3's

Repeated Addition: 3 x 3	Array: 3 rows of 3
$\underline{3+3+3=9}$ Multiplication Sentence: <u>Exar</u> $\underline{3} \times \underline{3} = \underline{9}$	nple 000 000
Repeated Addition: 3 x 8	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 7	Array:rows of
Multiplication Sentence:	
Repeated Addition: 3 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 4's

Repeated Addition: 4 x 2	Array: 4 rows of 2
$4+4=8$ Multiplication Sentence: $4 \times 2 = 8$	nple
Repeated Addition: 4 x 8	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 3	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 7	Array:rows of
Multiplication Sentence:	
Repeated Addition: 4 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 5's

Repeated Addition: 5 x 2	Array: 5 rows of 2
$5+3=10$ Multiplication Sentence: $5 \times 2 = 10$	nple
Repeated Addition: 5 x 8	Array: rows of
Multiplication Sentence:	
Repeated Addition: 5 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 5 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 5 x 3	Array:rows of
Multiplication Sentence:	
Repeated Addition: 5 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 5 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 5 x 7	Array: rows of
Multiplication Sentence:	
Repeated Addition: 5 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 6's

Repeated Addition: 6 x 3	Array: <u>6 rows of 3</u>
$0+0+0-18$ Multiplication Sentence: $6 \times 3 = 18$	mple_
Repeated Addition: 6 x 8	Array:rows of
Multiplication Sentence: x	
Repeated Addition: 6 x 4	Array:rows of
Multiplication Sentence: x =	
Repeated Addition: 6 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 6 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 6 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 6 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 6 x 7	Array:rows of
Multiplication Sentence: x	
Repeated Addition: 6 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 7's

Repeated Addition: 7 x 3	Array: 7 rows of 3
$7 + 7 + 7 = 21$ Multiplication Sentence: $7 \times 3 = 21$	nple
Repeated Addition: 7 x 8	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 7 x 7	Array: rows of
Multiplication Sentence:	
Repeated Addition: 7 x 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 8's

Repeated Addition: 8 x 3	Array: 8 rows of 3
$B + 8 + 8 - 24$ Multiplication Sentence: $8 \times 3 = 24$	nple
Repeated Addition: 8 x 8	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 6	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 8 x 7	Array:rows of
Multiplication Sentence: x	
Repeated Addition: 8 × 10	Array:rows of
Multiplication Sentence:	

Modeling Multiplication 9's

Repeated Addition: 9 x 3	Array: 9 rows of 3
S + S + S = 27Multiplication Sentence: $9 \times 3 = 27$	mple_
Repeated Addition: 9 x 8	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 4	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 6	Array:rows of
Multiplication Sentence: x =	
Repeated Addition: 9 x 2	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 5	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 9	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 7	Array:rows of
Multiplication Sentence:	
Repeated Addition: 9 x 10	Array:rows of
Multiplication Sentence:	







Identity (one) Property of Multiplication The product of any number and 1 is that pupper. $2 \times 1 = 2$ $9 \times 1 = 9$ $56 \times 1 = 56 \quad 4 \times 1 = 4$



Zero Property of Multiplication The product of any number and zero is Zepo. 15 <u>x ()</u> $5 \times 0 = 0$ () $0 \ge 3 = 0$ <u>x 9</u> ()





Multiplication Key Words for problem solving double each product times of by triple twice multiplied per

Multiplication – An operation that gives the total number when you join equal groups.	Different multiplication symbols: X, *, (), •	Example:	Identity (one) Property of Multiplication - The product of any number and 1 is that number.
Eut dotted Factors - Numbers that are multiplied to give a product.	Circle the factors. 2 x 3 = 6 5 x 8 = 40 3 x 3 = 9	Example:	Eut dotted Commutative (Order) Property of Multiplication- Numbers can be multiplied in any order and the product will be the same.
 – Eut dotted – – Product – The answer to a multiplication problem. 	The product of 2 x 5 =	Example:	- – Eut dotted – – Zero Property of Multiplication- The product of any number and zero is zero.
 – Eut dotted – – Multiples - The products of a number and other whole numbers. 	List multiples of	Example:	– Eut dotted – – Array – A way of displaying objects in equal rows