## **BUILD A COW WORKSHOP**

Roll the colored dice to determine what genes your offspring will carry. Match the genetic traits each parent will pass on to his/her offspring by recording the uppercase or lowercase letter from the dice in your chart.

## **MOTHER'S TRAITS**

## **FATHER'S TRAITS**

	heads dominant	tails recessive		heads dominant	tails dominant
1. Male/female	X = female	х	1. male/female	х	Y = male
2. polled/ horned	P = polled	р	1. polled/ horned	Р	р
3. Black coat/ red coat	B = black	b	3. Black coat/ red coat	В	b
4. Solid coat/ spotted coat	S = spotted	s	4. Solid coat/ spotted coat	S	s

	Mother's trait	Father's trait	Circle appropriate trait combination		
Sample trait	В	b	BB	Bb	bb
1. Male/female			male	Female	n/a
			XY	xx	
2. polled/horned			polled	polled	horned
			PP	Рр	рр
3. black coat/red coat			black coat	black coat	red coat
			ВВ	Bb	bb
4. solid/spotted			solid	solid	spotted
			SS	Ss	SS

	Mother's trait	Father's trait	Circle appropriate trait combination		
Sample trait	В	b	ВВ	Bb	bb
1. Male/female			male	Female	n/a
			XY	xx	
2. polled/horned			polled	polled	horned
			PP	Рр	рр
3. black coat/red			black coat	black coat	red coat
coat			ВВ	Bb	bb
4. solid/spotted			solid	solid	spotted
			SS	Ss	ss