

# Contents

## *Fields and Interactions*

<b>1</b>	<b>PROBLEM SOLVING</b>				
	Save the Astronaut!	3			
<b>2</b>	<b>READING</b>				
	The Apollo Missions	9			
<b>3</b>	<b>DESIGN</b>				
	Gravitational Transporter	19			
<b>4</b>	<b>INVESTIGATION</b>				
	Gravitational Force	25			
<b>5</b>	<b>INVESTIGATION</b>				
	Mapping Magnetic Fields	31			
<b>6</b>	<b>DESIGN</b>				
	Magnetic Transporter	37			
<b>7</b>	<b>READING</b>				
	Gravitational and Magnetic Fields	43			
<b>8</b>	<b>INVESTIGATION</b>				
	Static Electricity	53			
<b>9</b>	<b>LABORATORY</b>				
	Electrostatic Force	57			
<b>10</b>	<b>COMPUTER SIMULATION</b>				
	Visualizing an Electric Field	63			
<b>11</b>	<b>MODELING</b>				
	Electric Field Transporter	67			
<b>12</b>	<b>INVESTIGATION</b>				
	Electric and Magnetic Fields	73			
<b>13</b>	<b>DESIGN</b>				
	Gyrosphere Rescue	79			
<b>14</b>	<b>READING</b>				
	Electric and Electromagnetic Fields	85			
<b>15</b>	<b>TALKING IT OVER</b>				
	Evaluating Transporter Designs	93			
	Unit Summary	103			
	Appendices	107			
	Glossary	143			
	Index	147			
	Credits	150			