



# El Dorado County Career Technical Partnership

In Partnership: Folsom Lake College • El Dorado Union High School District • El Dorado County Office of Education

## DNA Chromatography Lab Rubric

	<b>Beginning D</b>	<b>Developing C</b>	<b>Accomplished B</b>	<b>Exemplary A</b>	<b>Score</b>
Running first gel to create fingerprint map	<b>Lab procedure was not followed, 1 or more markers are missing and or not labeled</b>	<b>All markers are present, but not labeled AND control is missing</b>	<b>All markers are present, and either labels OR control is missing</b>	<b>All markers are present, control is present, labels are accurate</b>	
Lab Write Up	<b>Missing 3 of the following: Purpose, procedure, observations, filter paper, name/date/per</b>	<b>Missing 2 of the following: Purpose, procedure, observations, filter paper, name/date/per</b>	<b>Missing 1 of the following: Purpose, procedure, observations, filter paper, name/date/per</b>	<b>All parts of lab are present and accurate</b>	
Identification of Unknown Samples	<b>n/a</b>	<b>Accurate identification of 1 unknown</b>	<b>Accurate identification of 2 unknowns</b>	<b>Accurate identification of 3 unknowns</b>	
Teamwork effectiveness	<b>Did not participate in the lab as a good team member, did not record information</b>	<b>Did not participate in the lab as a good team member, BUT did record information</b>	<b>Contributed semi-effectively and shared in some decision making</b>	<b>Contributed effectively and shared in all decision making</b>	
Lab Follow Up Questions	<b>Answered at least 5 questions correctly</b>	<b>Answered at least 8 questions correctly</b>	<b>Answered at least 10 questions correctly</b>	<b>Answered ALL questions correctly</b>	

### Objectives:

Students will learn the lab procedure and skills that are necessary to perform DNA Electrophoresis Gels. Students will use proper sanitation procedures, follow directions, work effectively in a group setting and apply knowledge to problem solving for unknown samples.