## MATHEMATICS AND ICT

## LEARNING EXPERIENCE PLAN SIMILARITY

Educator: L. Experience:	Bongani Similarity		Date: 18 Grade: 12	3/08/03 2				ZAMAZULU MATHEMATICS	
Critical	Identify and solve problems in which responses display that responsible decisions using critical and creative thinking have been made				•	Communicate effectively using visual, mathematical and/or language skills in the modes of oral and/or written presentation			
Outcomes:	<ul> <li>Work effectively with others as members of a team, group, organisation, community</li> <li>Collect, analyse, organise and critically evaluate information</li> </ul>				•	Demonstrate an understanding of the world as a set of related systems by recognising that problem-solving contexts do not exist in isolation			
Plus (out of 5)	Reflecting on and exploring a variety of strategies to learn more effectively					<ul> <li>Exploring education and career opportunities, and</li> <li>Developing entrepreneurial opportunities</li> </ul>			
Activities of  1. Prepare resourc  2. Organise, arrangeroups and clas  3. Mediate and factorize experience  4. Give direction aproblems  5. Assess performer progress of indigroups  6. Adapt delivery activity levels	es ge and manage sroom cilitate learning and solve arising ance and viduals and	<ol> <li>Use workt parallel lin</li> <li>Measuring sides as ra</li> <li>Calculating distances i</li> <li>Measuring angles in p</li> <li>Proving sit by finding proportion</li> <li>Manipulat</li> </ol>	of Learners book to draw les in triangles lymanipulating tios in triangles g missing sides/ n triangles lymatching equal lyma	Resources 1. Protractors and rulers (learners supply) 2. Calculators (learners to sup 3. LSM, (workshe for each learner 4. Transparences a overhead project 5. Learners'	ply) eets c) and	<ol> <li>Quest obset infor</li> <li>Selfteach</li> <li>Grouby g</li> <li>Eductors selftes</li> <li>Short</li> </ol>	ssment Strategies stioning and rvation for mation guidance assessment task af activity up-assessment task roup members cators' final ssment task (same a and group-task) t test on learning crience	<ul><li>3. Calculating missing sides/distances: 60 min</li><li>4. Proving similar triangles: by equal angles: 60 min</li></ul>	

**Expanded Opportunities**: Formal proof of theorems and exercises

**Special Needs:** Additional worksheets of lower & challenging levels

Enrichment: Right-angled triangles, previous exam questions

**Homework:** Write up answers to questions. Similarity problems worksheet

