

gridlocks – can you unlock the grid?

Rock types 2

Before you answer the puzzles below fill in the table of the four types of rock using:

small particles cemented together

intrusive igneous

basalt

Name	How it was formed	Appearance	Example
sedimentary		separate grains cemented together, often layers	sandstone
metamorphic	changed from another type of rock by heat and pressure	interlocking crystals, sometimes in bands	slate
	cooled from magma below ground	large interlocking crystals randomly arranged	granite
extrusive igneous	cooled from magma out of the ground	small interlocking crystals randomly arranged	

Gridlock 1

Each row, column and 2 x 2 box contains the four types of rock. Use your problem solving skills and the answers in the table above to fill in the blank boxes.

name		example	
sedimentary			basalt
	extrusive igneous		
			sedimentary
		metamorphic	
example		name	

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Gridlock 2

Each row, column and 2 x 2 box contains information about the four types of rock.

name		how it was formed	
metamorphic			
		cooled from magma out of the ground	
		sedimentary	
	large interlocking crystals randomly arranged		
appearance		name	

Gridlock 3

Each row, column and 2 x 2 box contains information about the four types of rock.

name		how it was formed	
	sedimentary		cooled from magma out of the ground
			small particles cemented together
interlocking crystals, sometimes in bands			granite
appearance		example	

Rock types 2 – answers

Name	How it was formed	Appearance	Example
sedimentary	small particles cemented together	separate grains cemented together, often layers	sandstone
metamorphic	changed from another type of rock by heat and pressure	interlocking crystals, sometimes in bands	slate
intrusive igneous	cooled from magma below ground	large interlocking crystals randomly arranged	granite
extrusive igneous	cooled from magma out of the ground	small interlocking crystals randomly arranged	basalt

Gridlock 1 – answers

name		example	
sedimentary	metamorphic	granite	basalt
intrusive igneous	extrusive igneous	sandstone	slate
slate	granite	extrusive igneous	sedimentary
basalt	sandstone	metamorphic	intrusive igneous
example		name	

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Gridlock 2 – answers

name		how it was formed	
metamorphic	extrusive igneous	cooled from magma below ground	small particles cemented together
intrusive igneous	sedimentary	cooled from magma out of the ground	changed from another type of rock by heat and pressure
small interlocking crystals randomly arranged	interlocking crystals, sometimes in bands	sedimentary	intrusive igneous
separate grains cemented together, often in layers	large interlocking crystals randomly arranged	metamorphic	extrusive igneous
appearance		name	

Gridlock 3 – answers

name		how it was formed	
intrusive igneous	sedimentary	changed from another type of rock by heat and pressure	cooled from magma out of the ground
extrusive igneous	metamorphic	cooled from magma below ground	small particles cemented together
separate grains cemented together, often in layers	large interlocking crystals randomly arranged	basalt	slate
interlocking crystals, sometimes in bands	small interlocking crystals randomly arranged	sandstone	granite
appearance		example	