## Patterning and Algebra

## IDENTIFY, DESCRIBE AND EXTEND REPEATING, GROWING AND SHRINKING PATTERNS Student Activities

Identify and extend repeating patterns
■ Relate each repeating pattern using one attribute to its extension ..... 1
■ Relate each repeating pattern to its missing term ..... 2
■ Relate each repeating pattern involving two attributes to its extension .....  .3
■ Relate each repeating pattern involving two attributesto its extension4

- Relate each repeating pattern involving two attributes to its missing term ..... 5
Identify growing and shrinking patterns that use repeated addition and subtraction of ones, twos, fives, 10s, and 25s
- Connect each growing pattern to its missing parts ..... 6
- Connect each growing pattern by five or ten to its extension ..... 7
- Connect each growing pattern by ten to its missing part ..... 8
■ Connect each growing pattern by 10s or 25 s to its missing part ..... 9
■ Compare each growing pattern to its pattern rule ..... 10
- Connect each shrinking pattern to its missing part ..... 11
- Connect each shrinking pattern to its extension ..... 12
- Relate each pattern to its corresponding extension ..... 13
Identify growing and shrinking patterns that useaddition and subtraction
■ Connect each growing pattern to its extension ..... 14
■ Connect each missing term to its growing pattern ..... 15
■ Compare each growing pattern to its corresponding pattern ..... 16
- Connect each shrinking pattern to its extension ..... 17
■ Compare each shrinking pattern to its missing term ..... 18
- Connect each shrinking pattern to its corresponding pattern ..... 19
The same pattern can be represented in different ways
■ Compare each coin pattern to its representation ..... 20
■ Compare each minute pattern to its corresponding pattern representation ..... 21
- Connect each pattern to its representation ..... 22
■ Connect each pattern representation to its corresponding representation ..... 23
■ Compare each repeated operation to its corresponding pattern ..... 24


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