# Activity sheet 3.20: Improving security at StreamSongs

*Learning outcome B: Cyber security*

*B1: Threats to data*

### *B2: Presentation and management of threats to data*

StreamSongs is an online music service. The business takes data security very seriously and has effective measures in place to prevent external threats to its data and its systems. It has recently reviewed its systems and discovered that it could do more to protect them from internal threats.

For each of the following security measures:

* 1. describe the types of threat that could be reduced
  2. explain how the security measure will help to reduce the chance of this threat occurring
  3. explain one limitation of this security measure.

1. Placing electronic swipe locks on all doors giving access to rooms containing networked computers.
   1. Threats that could be reduced:

* 1. How the security measure can help to reduce internal threats:

* 1. One limitation of the security measure:

1. Installing security cameras in all public corridors and around entrance and exit doors.
   1. Threats that could be reduced:

* 1. How the security measure can help to reduce internal threats:

* 1. One limitation of the security measure:

1. Replacing passwords with a two-factor authentication system of a PIN code and smartphone-generated one-time only password.
   1. Threats that could be reduced:

* 1. How the security measure can help to reduce internal threats:

* 1. One limitation of the security measure:

1. Creating different levels of access for different users. For example, sales staff can view sales and customer purchasing history; finance staff can view customer financial records.
   1. Threats that could be reduced:

* 1. How the security measure can help to reduce internal threats:

* 1. One limitation of the security measure:

1. Computers, once logged onto, become locked after 30 seconds of inactivity and can only be unlocked by a correct match using facial recognition software.
   1. Threats that could be reduced:

* 1. How the security measure can help to reduce internal threats:

* 1. One limitation of the security measure: